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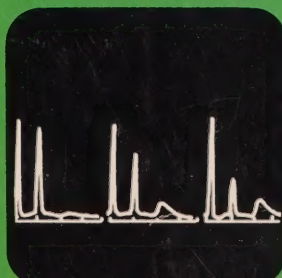
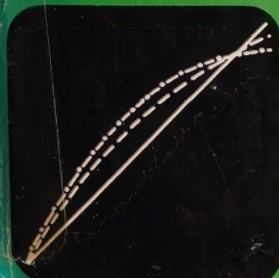
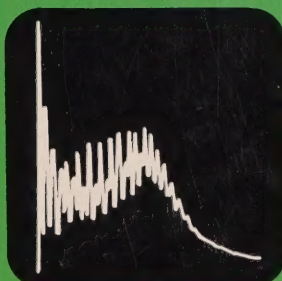
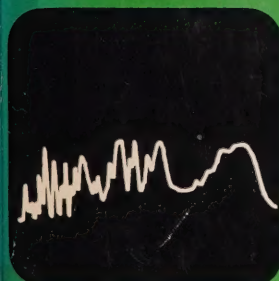
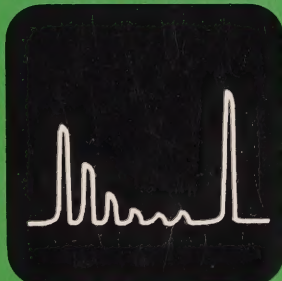
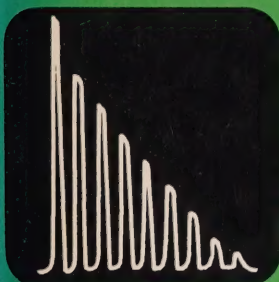



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**Water Quality Data**  
**Données sur la qualité des eaux**

# **Mackenzie River Basin** **Bassin hydrographique** **Mackenzie**

**1960 - 1979**





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# **Water Quality Data** **Données sur la qualité des eaux**

## **Mackenzie River Basin** **Bassin hydrographique** **Mackenzie**

### **1960 – 1979**

*Prepared for the*  
**Mackenzie River Basin Committee**  
*by*

**INLAND WATERS DIRECTORATE**  
**WATER QUALITY BRANCH**  
**OTTAWA, CANADA, 1981**

*Rapport préparé pour le*  
**Comité d'étude du bassin hydrographique Mackenzie**

**DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES**  
**DIRECTION DE LA QUALITÉ DES EAUX**  
**OTTAWA, CANADA, 1981**



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## Preface

The following summary of federal/provincial water quality data pertaining to the Mackenzie River was prepared for the Mackenzie River Basin Committee by the Water Quality Branch as part of the Mackenzie River Basin Study Program 1978-81. A *Summary of Available Water Quality Information (1979)* provided the basis for the present data compilation. The report contains federal and provincial data assembled in a format compatible with that of the existing NAQUADAT archives. The data summary is intended primarily as a reference of water quality data and will form the basis of a water quality interpretive report on the Mackenzie River Basin.

## Avant-propos

Le présent extrait des données fédérales et provinciales sur la qualité des eaux en rapport avec le fleuve Mackenzie a été préparé pour le Comité d'étude du bassin hydrographique Mackenzie par la Direction de la qualité des eaux dans le cadre du Programme d'étude du bassin hydrographique Mackenzie, 1978-1981. Le document *A Summary of Available Water Quality Information (1979)* a servi de base à la compilation actuelle des données. Le rapport contient des données fédérales et provinciales rassemblées de façon compatible avec la formule des archives NAQUADAT existantes. Le but du présent extrait est de servir de document de référence sur les données sur la qualité des eaux; il servira de base à un rapport d'interprétation sur la qualité des eaux du bassin hydrographique.





# Introduction

The water quality data presented in this report have been collected from federal agencies and the provinces of Alberta and British Columbia. The provincial data were reformatted to be compatible with the federal data on the NAQUADAT system. The computerized National Water Quality Data Bank (NAQUADAT) is a repository for water quality information which includes chemical, physical, biological and hydrometric data for surface water, ground-water, wastewater and precipitation. Analytical methods used by the provincial agencies were compared with the analytical procedures described in the NAQUADAT Dictionary. Provincial data analyzed by methods identical with those described in the Dictionary were assigned NAQUADAT parameter codes, whereas methods which differed from those presented in the Dictionary were assigned NAQUADAT parameter codes for the method they most closely approximated and the code was terminated with an "E" to indicate that the Water Quality Branch procedure estimates (approximates) the provincial method.

Water Quality Branch publications\* such as the *NAQUADAT Users Manual* and the *NAQUADAT Dictionary* may be helpful in explaining more fully the details of this report. The *NAQUADAT Users Manual* provides a detailed description of the NAQUADAT system and outlines the procedures for the submission or retrieval of data. The *NAQUADAT Dictionary* contains a detailed listing of the NAQUADAT parameter codes including brief descriptions of the methods of analysis.

## A GUIDE TO THE USE OF THE SUMMARY

This report presents summary data of water quality samples collected from 1960 to 1979. Since many stations were not sampled for the entire period, the sampling period (period of record) is indicated for each individual station. The data summary is organized according to the seven major sub-basins of the Mackenzie River Basin, namely:

1. Athabasca River Drainage
2. Peace River Drainage

# Introduction

Les données sur la qualité des eaux contenues dans le présent rapport ont été recueillies auprès d'organismes fédéraux et dans les provinces de l'Alberta et de la Colombie-Britannique. Les données provinciales ont été reformulées pour être compatibles avec les données fédérales du système NAQUADAT. La Banque nationale de données sur la qualité des eaux (NAQUADAT) contient des données chimiques, physiques, biologiques et hydrométriques sur les eaux de surface, les eaux souterraines, les eaux usées et les précipitations. Les méthodes analytiques utilisées par les organismes provinciaux ont été comparées à celles décrites dans le dictionnaire NAQUADAT. Les données provinciales analysées suivant des méthodes identiques à celles décrites dans le dictionnaire ont reçues des codes paramétriques NAQUADAT; lorsque les méthodes différaient de celles présentées dans le dictionnaire, elles recevaient des codes paramétriques NAQUADAT pour la méthode dont elles se rapprochaient le plus, et le code se termine par un "E" pour indiquer que la méthode de la Direction de la qualité des eaux ressemble à celle suivie par la province.

Les publications\* de la Direction de la qualité des eaux telles que "NAQUADAT — Guide des utilisateurs" et le dictionnaire NAQUADAT peuvent être utiles pour avoir une explication plus approfondie des détails du présent rapport. Le Guide des utilisateurs NAQUADAT donne une description détaillée du système NAQUADAT et esquisse les méthodes à suivre pour la présentation de données ou la recherche documentaire. Le dictionnaire NAQUADAT contient une liste détaillée des codes paramétriques NAQUADAT ainsi que de courtes descriptions des méthodes d'analyse.

## COMMENT CONSULTER LES TABLEAUX

Le présent rapport contient un extrait des données relatives aux échantillons d'eaux prélevés entre 1960 et 1979. Comme les stations n'ont pas toutes fonctionné pendant tout ce laps de temps, on indique pour chacune leur durée de service. Les données sont présentées suivant les sept principaux sous-bassins du bassin hydrographique Mackenzie, soit:

1. bassin hydrographique de la rivière Athabasca
2. bassin hydrographique de la rivière de la Paix

\* Requests for publication or retrievals should be directed to:  
Head, Data and Instrumentation Section  
Water Quality Branch  
Inland Waters Directorate  
Environment Canada  
Ottawa, Ontario K1A 0E7

\* Les demandes de publications ou de recherche documentaire doivent être adressées au:  
Chef, Données et instruments  
Direction de la qualité des eaux  
Direction générale des eaux intérieures  
Environnement Canada  
Ottawa (Ontario) K1A 0E7

3. Liard River Drainage
4. Hay River Drainage
5. Great Slave Lake Drainage
6. Great Bear Lake Drainage
7. Mackenzie River Drainage

Within each section the summary is arranged by the station number (i.e. 12-digit alphanumeric codes) appearing at the top of each page. A numerical index of the stations indicates the station's latitude and longitude and gives the page number of the summary data. An alphabetical station index is provided at the beginning of each section, which enables the user to determine the station number for a particular location and hence locate the appropriate data. The code "97900S" in either index indicates that discharge data is available at the site. The Water Survey of Canada station number can be generated from the water quality station number by combining characters 5-8 of the NAQUADAT station number with the three digits noted after "97900S". The same procedure is followed in determining the original Alberta provincial station number from the *assigned* NAQUADAT number. To generate the Alberta government station number, substitute the four digits appearing after the "97910S" code for the last four digits of the NAQUADAT station number. For British Columbia government stations, the EQUIS number is in brackets at the end of the station description.

## Data Presentation

Each page of the data summary may contain up to three rows of data and each row may contain as many as eight parameters. For ease of interpretation the parameters are presented in "natural" groupings such as physical parameters, major ions, nutrients, metals, etc. for each station. The station is identified by a NAQUADAT station number, latitude and longitude, UTM coordinates and a station description at the top of the page.

### 1. Data Statistics

Analytical results are presented as minima and maxima, and whenever sufficient data are available, as averages, standard deviations, and percentiles (10, 25, median, 75, 90). The 10th percentile means that 10 per cent of the results are equal to or less than the value stated. The standard deviation provides an estimate of the variation in the samples measured, but it is *not* a measure of the precision of individual analyses.

3. bassin hydrographique de la rivière Liard
4. bassin hydrographique de la rivière au Foin
5. bassin hydrographique du Grand lac des Esclaves
6. bassin hydrographique du Grand lac de l'Ours
7. bassin hydrographique du fleuve Mackenzie

Dans chaque section, l'extrait est présenté suivant le numéro de la station (c'est-à-dire le code alphanumérique à 12 caractères) inscrit en tête de chaque page. Un index numérique des stations à la fin du rapport donne les coordonnées géographiques de la station ainsi que la page de l'extrait des données. Un index alphabétique des stations est fourni au début de chaque section, ce qui permet à l'utilisateur de déterminer le numéro de la station pour un endroit particulier et, ainsi, de trouver les données voulues. Le code "97900S" dans l'un ou l'autre des index indique la présence de données sur le débit à l'endroit considéré. Le numéro de la station des Relevés hydrologiques du Canada peut être trouvé à partir du numéro de la station de la qualité des eaux en combinant les caractères 5 à 8 du numéro de la station NAQUADAT avec les trois caractères inscrits après "97900S". La même méthode est suivie pour déterminer le numéro initial de la station provinciale en Alberta à partir du numéro NAQUADAT *attribué*. Pour trouver le numéro de la station du gouvernement de l'Alberta, il faut remplacer les quatre caractères apparaissant après le code "97900S" par les quatre derniers caractères du numéro de la station NAQUADAT. Pour les stations du gouvernement de la Colombie-Britannique, le numéro EQUIS est inscrit entre parenthèses à la fin de la description de chaque station.

## Présentation des données

Chaque page de l'extrait des données peut contenir jusqu'à trois rangées de données, et chaque rangée peut contenir jusqu'à huit paramètres. Pour faciliter l'interprétation les paramètres sont présentés en groupes "naturels" tels que les paramètres matériels, les principaux ions, les éléments nutritifs, les métaux, etc. pour chaque station. La station est identifiée par un numéro de station NAQUADAT, les coordonnées géographiques, les coordonnées du système universel transverse de Mercator et une description de la station au haut de la page.

### 1. Statistiques

Les résultats des analyses sont présentés sous forme de minimums et de maximums, et lorsqu'il y a suffisamment de données, ils sont présentés sous forme de moyennes, d'écart-types et de percentiles (10, 25, médiane, 75, 90). Le 10<sup>e</sup> percentile signifie que 10 pour cent des résultats sont égaux à la valeur énoncée ou plus petits que celle-ci. L'écart-type donne une estimation de la variation dans les échantillons mesurés, mais ce n'est *pas* une mesure de la précision des analyses individuelles.



## 2. Submitter ID

The agency or project is identified by a code or "Subm. ID". The agencies or projects that provided data to this report are noted below:

### Subm. ID

0001	National Monitoring (IWD)
0003	National Monitoring (WQB)
0004	Saskatchewan River Basin Headwaters (East slope)
0017	Long Term Survey (1960-66)
0018	NWT/YT DINA Mining Sample
0020	Research Basins (Fed. WQB) Western
0024	Western Canada Field Trip (1966)
0033	Western Canada Field Trip (1967 & 68)
0056	Mackenzie River Project
0058	Smoky River at Hells Creek (W-23)
0060	Trace Metals, Saskatchewan
0103	Alberta Heavy Metals & Pesticides
0124	Mackenzie River Pipeline Project
0301	British Columbia Provincial Samples
0321	Alcan Pipeline (Ogilvie River)
0326	Peace River
0402	Mackenzie River Pipeline Study (FWI)
0411	Benchmark Research Basin
0417	National Park Study
0420	Alberta Provincial Samples
0421	Alberta Oil Sands Environmental Research Program
0435	Dr. Anderson (Univ. Calgary)
0440	NWT/YT Federal Fisheries Service
0469	Saskatchewan Department of Environment
0479	Canada-Alberta Agreement

## 3. Methods of Analysis

The methods of analysis are identified by a five-digit NAQUADAT parameter code followed by a letter which indicates either a *place of analysis*—L, laboratory; F, field; S, *in situ*; P, (field) preserved — or that an approximate method was used and therefore E, estimated.

## 4. Secondary or Back-Up Codes

Alternative analytical methods are indicated by the last three characters of the NAQUADAT parameter code.

## 2. Numéro d'identité

L'organisme ou le projet est identifié par un code ("Subm. ID"). Voici les organismes ou projets qui ont fourni des données pour le présent rapport:

### Numéro d'identité

#### (Subm. ID)

0001	Surveillance nationale (DGEI)
0003	Surveillance nationale (DQE)
0004	Sources du bassin de la rivière Saskatchewan (versant est)
0017	Enquête à long terme (1960-1966)
0018	Échantillonnage des mines — TNO-Yukon — MAIN
0020	Bassins — recherche (DQE féd.) ouest
0024	Excursion dans l'Ouest canadien (1966)
0033	Excursion dans l'Ouest canadien (1967-1968)
0056	Projet du fleuve Mackenzie
0058	Rivière Smoky au ruisseau Hells (W-23)
0060	Métaux en quantité infime, Saskatchewan
0103	Métaux lourds et pesticides — Alberta
0124	Projet de pipeline de la vallée du Mackenzie
0301	Échantillons provinciaux — Colombie- Britannique
0321	Pipeline de l'Alcan (rivière Ogilvie)
0326	Rivière de la Paix
0402	Étude du pipeline de la vallée du Mackenzie (IED)
0411	Bassin de recherche repère
0417	Étude des parcs nationaux
0420	Échantillons provinciaux — Alberta
0421	Programme de recherche environnementale sur les sables bitumineux de l'Alberta
0435	Dr Anderson (Univ. de Calgary)
0440	TNO/Yukon — Service fédéral des pêches
0469	Ministère de l'Environnement — Saskatchewan
0479	Accord Canada-Alberta

## 3. Méthodes d'analyse

Les méthodes d'analyse sont identifiées par un code paramétrique NAQUADAT de cinq caractères suivi d'une lettre qui indique le *lieu d'analyse*—L, laboratoire; F, terrain; S, sur place; P, (terrain) préservé — ou le fait qu'une méthode approximative a été utilisée, donc la lettre E, estimé.

## 4. Codes secondaires ou de réserve (backup codes)

Les autres méthodes d'analyse sont indiquées par les trois derniers caractères du code paramétrique NAQUADAT.



## 5. *Data Qualifiers or Flags*

These qualifiers appear in front of the actual numerical values.

- L — implies *less than* the detection limit.
- G — implies *greater than* the value noted.
- Q — implies a qualified computed result because values with "L" or "G" have been used in the calculation.

## 6. *Computed Values*

Computed values are indicated by "(CALCD)" in the parameter description. These values are calculated by NAQUADAT from analytical results on file.

Although a value reported as "L.1" is not necessarily greater than "L.01", in computing averages the NAQUADAT procedure is to include *less than* measurements but to assign them a numerical value 0.000001 less than the reported detection limit (thus L.001 becomes 0.000999).

## Data Interpretation

This summary report provides a guide to water quality conditions within the Mackenzie River Basin, but it is essential to interpret the data with care. For example, the low and high values refer only to the samples measured and are not necessarily the actual extreme values which occurred in the water system during the entire period of record.

## ACKNOWLEDGMENTS

The data presented in this report have been derived from federal and provincial government agencies. Although the Water Quality Branch, Environment Canada, is responsible for the report, Mr. J.E. Elliott had the contract to produce the data summary. Funding for the project was provided by the Mackenzie River Basin Committee. In addition, many individuals from both federal and provincial agencies cooperated in the preparation of the report. The Water Quality Branch would like to acknowledge the cooperation of Dr. M.A. Akena, Water Quality Control Branch, Alberta Ministry of Environment, and Dr. M.J.R. Clark, Pollution Control Branch, British Columbia Ministry of Environment. The contributions made by the following members of the Water Quality Branch — Ms. M.E. Lamb and Mr. M.R. Charette (computer programming), and Mr. J. H. Temple (map compilation) — were appreciated. Dr. R.N. McNeely and Mr. E.R. Watt provided advice

## 5. *Marqueurs ou indicateurs*

Ces marqueurs sont inscrits devant les valeurs numériques réelles.

- L — signifie *plus petit que* la limite de détection
- G — signifie *plus grand que* la valeur notée
- Q — signifie un résultat calculé qualifié parce que les valeurs marquées d'un "L" ou d'un "G" ont été utilisées dans les calculs

## 6. *Valeurs calculées*

Les valeurs calculées sont indiquées par "(CALCD)" dans la description du paramètre. Ces valeurs sont calculées par le système NAQUADAT à partir des résultats des analyses au fichier.

Une valeur marquée "L.1" n'est pas nécessairement plus grande qu'une valeur "L.01"; cependant, dans le calcul des moyennes, le système NAQUADAT inclut des valeurs *moindres que* celles mesurées mais en leur assignant une valeur numérique de 0.000001 inférieure à celle de la limite de détection signalée (donc, L.01 devient 0.000999).

## Interprétation des données

Le présent rapport sert de guide sur la condition qualitative des eaux du bassin hydrographique Mackenzie, mais il est essentiel d'interpréter les données avec soin. Par exemple, les valeurs basses et élevées ne se rapportent qu'aux échantillons mesurés et ne sont pas nécessairement les valeurs extrêmes réelles du bassin hydrographique durant toute la période visée.

## REMERCIEMENTS

Les données contenues dans le présent rapport proviennent d'organismes fédéraux et provinciaux. La Direction de la qualité des eaux d'Environnement Canada est responsable du rapport; mais M. J.E. Elliott a été chargé, par contrat, de préparer l'extrait des données. Le projet a été financé par le Comité d'étude du bassin hydrographique Mackenzie. De plus, beaucoup d'employés d'organismes fédéraux et provinciaux ont collaboré à la préparation du rapport. La Direction de la qualité des eaux tient à remercier de leur coopération le D<sup>r</sup> M.A. Akena, Direction du contrôle de la qualité des eaux, ministère de l'Environnement de l'Alberta, et le D<sup>r</sup> M.J.R. Clark, Direction de la lutte contre la pollution du ministère de l'Environnement de la Colombie-Britannique. Les contributions apportées par M<sup>me</sup> M.E. Lamb et M. M.R. Charette (programmation) et par M. J.H. Temple (compilation des cartes), de la Direction de la qualité des eaux, ont été remarquées. Le D<sup>r</sup> R.N.

and assistance during the production of the report. Special thanks are also extended to Ms. P. Manuel (COSEP student) for her contributions, and to Mr. G. Larose (E.C.S., Drafting Division) for his assistance during the production of the map.

McNeely et M. E.R. Watt ont fourni conseils et aide durant la production du rapport. Nous tenons à remercier spécialement M<sup>me</sup> P. Manuel (étudiante du Programme d'emploi d'été axé sur la carrière) de sa collaboration et M. G. Larose (Division du dessin, S.C.E.) de l'aide apportée pour la production de la carte.



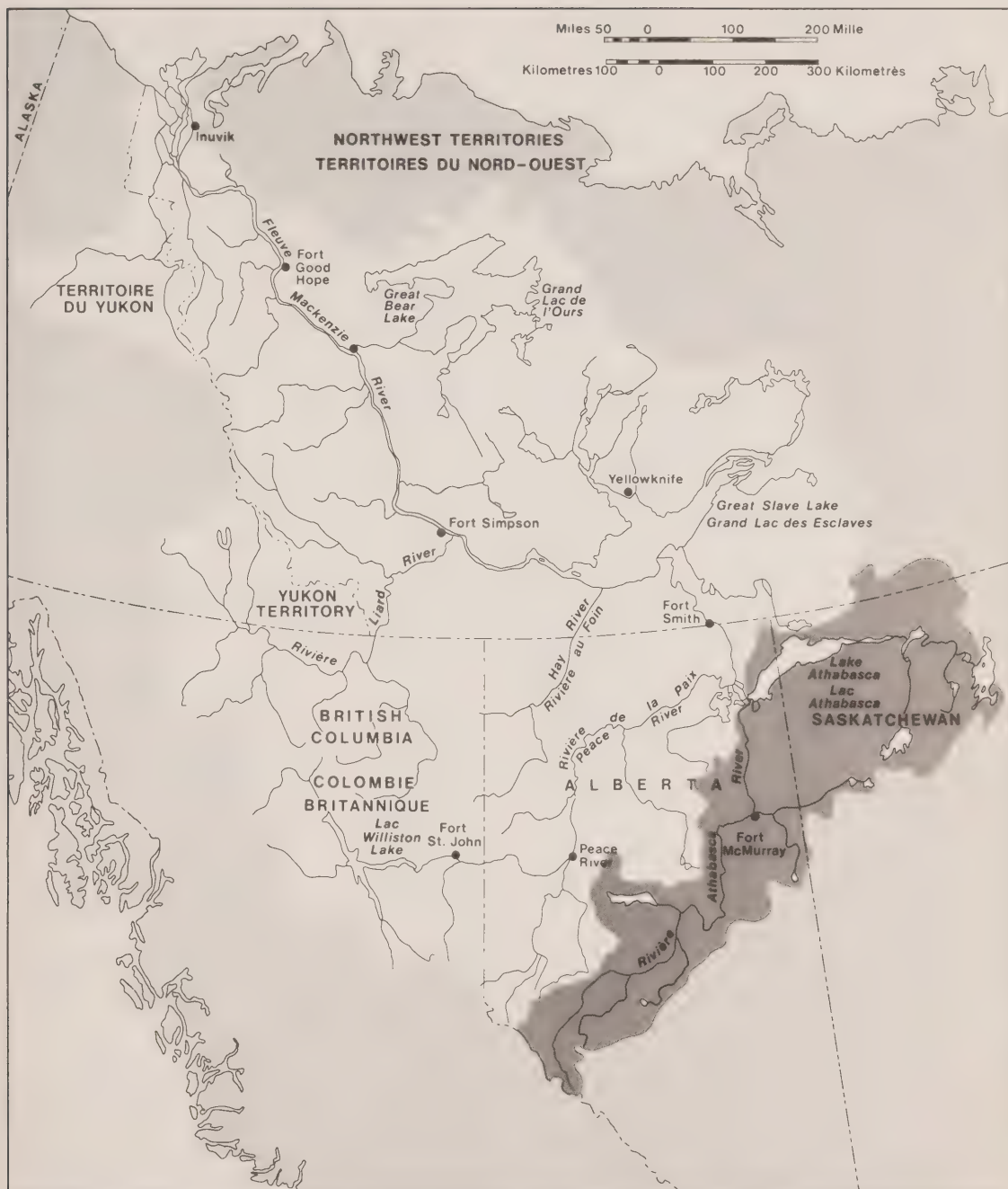


Summary Data  
Données sommaires



## MACKENZIE RIVER BASIN

## Athabasca River Sub-basin







# WATER QUALITY STATIONS : ALPHABETICAL INDEX

# ATHABASCA RIVER

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
ASPHALT CREEK NEAR FORT MACKAY - ON RIGHT BANK 30 AIR MILES NORTH OF FORT MACKAY - AT WSC GAUGE - AOSERP	00AT07DA0023	57	32	20	111	40	36	302
ATHABASCA RIVER - ABOVE THE FIREBAG RIVER - MILE 82.4 - AOSERP	00AT07DA0044	57	44	23	111	21	58	365
ATHABASCA RIVER - BELOW HINTON	00AT07AD0002	53	42	9	117	9	45	169
ATHABASCA RIVER - BIG POINT CHANNEL OUTLET - DELTA SITE - AOSERP	00AT07DD0004	58	38	25	110	46	26	414
ATHABASCA RIVER - BITUMOUNT	00AT07DA0053	57	23	30	111	39	0	381
ATHABASCA RIVER - OFF MCDONALD ISLAND - AOSERP	00AT07DA0035	56	44	33	111	23	25	338
ATHABASCA RIVER - SITE 3 - MILE 6.5 - AOSERP	00AT07DA0036	56	46	48	111	24	18	341
ATHABASCA RIVER - SITE 4 - MILE 19 - AOSERP	00AT07DA0038	56	56	21	111	26	34	347
ATHABASCA RIVER - SITE 6 - MILEAGE 29.8 - AOSERP	00AT07DA0040	57	4	33	111	31	59	353
ATHABASCA RIVER ABOUT 0.5 MILE ABOVE HENRY HOUSE, JASPER NATIONAL PARK, ALBERTA	00AL07AA0021	52	58	51	118	2	30	55
ATHABASCA RIVER ABOUT 2.05 MILES BELOW DEVONA, JASPER NATIONAL PARK, ALBERTA	00AL07AA0025	53	10	15	117	58	24	67
ATHABASCA RIVER ABOUT 4.5 MILES BELOW CONFLUENCE WITH SUNWAPTA RIVER, JASPER NATIONAL PARK, ALBERTA	00AL07AA0014	52	35	3	117	44	21	34
ATHABASCA RIVER ABOVE G.C.O.S. PLANT AOSERP	00AT07DA0037	56	58	1	111	27	14	344
ATHABASCA RIVER ABOVE JASPER, JASPER NATIONAL PARK, ALBERTA	00AL07AA0007	52	48	39	118	2	18	16
ATHABASCA RIVER ABOVE SMITH	00AT07BK0001	55	10	15	144	2	30	207
ATHABASCA RIVER AT ATHABASCA, ALBERTA 979005001	00AL07BE0001	54	43	21	113	17	9	147
ATHABASCA RIVER AT EMBARRAS AIRPORT - AT WSC GAUGE -AOSERP	00AT07DD0001	58	12	18	111	23	24	405
ATHABASCA RIVER AT FORT MACKAY	00AT07DA0051	57	11	40	111	36	30	377
ATHABASCA RIVER AT FORT MACKAY - AOSERP	00AT07DA0042	57	11	16	111	37	26	359

# ATHABASCA RIVER

# WATER QUALITY STATIONS : ALPHABETICAL INDEX

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
ATHABASCA RIVER AT FORT MACKAY, ALBERTA	00AL07DA0003 97900S003	57	11	12	111	37	30	164
ATHABASCA RIVER AT FORT MCMURRAY, ALBERTA	00AL07DA0001 97900S001	56	46	54	111	24	9	161
ATHABASCA RIVER AT FORT POINT BRIDGE JASPER NATIONAL PARK ALBERTA	00AL07AA0043	52	52	10	118	3	45	91
ATHABASCA RIVER AT HINTON	00AT07AD0001	53	24	45	117	35	15	167
ATHABASCA RIVER AT HINTON, ALBERTA	00AL07AD0001 97900S002	53	24	45	117	35	15	108
ATHABASCA RIVER AT HWY BRIDGE ABOUT 2 MILES BELOW JASPER, JASPER NATIONAL PARK, ALBERTA	00AL07AA0019 97900S002	52	54	33	118	3	24	49
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA	00AL07AA0023	53	2	30	118	5	15	61
ATHABASCA RIVER AT HWY 18, NEAR FORT ASSINIBOINE, ALBERTA	00AL07BD0002	54	19	12	114	47	0	141
ATHABASCA RIVER AT HWY 93A ABOUT 3.8 MILES ABOVE MOUTH OF ASTORIA RIVER, JASPER NATIONAL PARK, ALBERTA	00AL07AA0017	52	45	27	117	58	30	43
ATHABASCA RIVER AT HWY 93A, ATHABASCA FALLS, JASPER NATIONAL PARK, ALBERTA	00AL07AA0015	52	39	54	117	52	51	37
ATHABASCA RIVER AT OLD AOSERP DOCK MILEAGE = 26.3	00AT07DA0039	57	1	15	111	29	49	350
ATHABASCA RIVER AT TAR ISLAND	00AT07DA0046	56	46	53	111	24	9	371
ATHABASCA RIVER AT TOWN OF ATHABASCA	00AT07CB0001	54	43	20	113	17	10	209
ATHABASCA RIVER AT WHITECOURT	00AT07AG0001	54	9	9	115	43	15	171
ATHABASCA RIVER AT WHITECOURT, ALBERTA	00AL07AE0001	54	9	9	115	43	15	111
ATHABASCA RIVER BELOW CONFLUENCE WITH THE TAR RIVER - MILE 52.4 - AOSERP	00AT07DA0043	57	21	56	111	39	43	362
ATHABASCA RIVER NEAR HONDO, ALBERTA	00AL07BD0004	55	5	33	114	5	6	144
ATHABASCA RIVER UPSTREAM FROM THE CONFLUENCE WITH THE MUSKEG RIVER MILE 34.5 - AOSERP	00AT07DA0041	57	7	49	111	36	18	356

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ATHABASCA RIVER 1.35 MILES ABOVE CONFLUENCE WITH SUNWAPTA RIVER, JASPER NATIONAL PARK, ALBERTA	00AL07AA0010	52	30	39	117	40	0	22
ATHABASCA RIVER 100 METERS ABOVE THE CONFLUENCE WITH THE HORSE RIVER AOSERP	00AT07CC0001	56	43	6	111	24	11	212
ATHABASCA RIVER 13 MILES BELOW CONFLUENCE WITH THE FIREBAG RIVER MILE 97-AOSERP	00AT07DA0045	57	55	31	111	26	41	368
BAPTISTE LAKE TRIBUTARY	00AT07BE0004	54	43	20	113	33	14	181
BEAVER CREEK ABOVE MALIGNE LAKE ROAD CROSSING JASPER NATIONAL PARK, ALBERTA	00AL07AA0034	52	51	0	117	43	10	82
BEAVER RIVER ABOVE SYNCRUDE - .25 MILE BELOW CONFLUENCE WITH CACHE CREEK - AT WSC GAUGE - AOSERP	00AT07DA0031	56	56	29	111	33	54	326
BEAVER RIVER AT HWY 63 - AOSERP	00AT07DA0032	57	6	54	111	37	22	329
BRIDGE CREEK DIVERSION - AT HWY 63 - AOSERP	00AT07DA0033	57	7	17	111	37	30	332
BUCK CREEK ABOVE HWY. 93 ROAD CROSSING JASPER NATIONAL PARK ALBERTA	00AL07AA0053	52	32	10	117	38	20	101
BUCK CREEK APPROX. 100M BELOW HWY. 93 JASPER NATIONAL PARK ALBERTA	00AL07AA0054	52	32	5	117	38	20	102
BUCK CREEK AT THE MOUTH JASPER NATIONAL PARK ALBERTA	00AL07AA0055	52	32	0	117	38	25	103
CALUMET RIVER NEAR FORT MACKAY - ON RIGHT BANK 16 AIR MILES NORTH OF FORT MACKAY - AT WSC GAUGE - AOSERP	00AT07DA0026	57	24	12	111	40	57	311
CALUMET RIVER NEAR THE MOUTH - AOSERP	00AT07DA0027	57	24	38	111	39	57	314
CATTLE CROSSING CREEK TRIBUTARY TO BAPTISTE LAKE- BAPTISTE LAKE PROJECT	00AT07BE0015	54	46	37	113	31	4	203
CHENAL DES QUATRE FOURCHERS APPROXIMATELY 6500 METERS DOWNSTREAM FROM FOUR FORKS SITE 75 AOSERP	00AT07KF0002	58	39	55	111	21	24	420
CHRISTINA RIVER - ABOVE CONFLUENCE WITH CLEARWATER RIVER	00AT07CE0002	56	39	30	111	2	30	233
CLEARWATER RIVER ABOVE FORT McMURRAY, ALBERTA	00AL07CD0001 97900S001	56	40	51	111	15	0	158
CLEARWATER RIVER APPROXIMATELY 2000 METERS ABOVE WATERWAYS AOSERP	00AT07CD0003	56	41	53	111	19	2	227

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CREE LAKE AT CABLE BAY, SASKATCHEWAN	01SA07LD0001 979005001	57	20	0	107	8	0	472
CREE RIVER AT OUTLET OF WAPATA LAKE, SASKATCHEWAN	00SA07LD0001 979005002	59	46	0	105	47	30	435
CROUCHER CREEK TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT	00AT07BE0009	54	45	2	113	33	49	191
CULVERT CREEK TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT	00AT07BE0002	54	43	48	113	32	6	177
DEERLICK CREEK NEAR HINTON, ALBERTA	00AL07AF0002 979005004	53	9	21	117	14	36	116
DOUGLAS RIVER APPROX. 16.1KM. BELOW CLUFF CREEK SASKATCHEWAN	00SA07MA0001	58	19	21	109	47	9	438
DOVER RIVER	00AT07DB0006	57	10	0	111	45	21	397
DOVER RIVER - 2 MILES ABOVE CONFLUENCE WITH MACKAY RIVER - AT WSC GAUGE - AOSERP	00AT07DB0002	57	10	12	111	47	38	386
DUNKIRK RIVER NEAR FORT MACKAY - ON RIGHT BANK 52 AIR MILES NORTH WEST OF FORT MCMURRAY - AT WSC GAUGE - AOSERP	00AT07DB0003	56	51	20	112	42	40	389
EAGLENEST LAKE IN BIRCH MOUNTAINS NEAR OUTLET AOSERP	01AT07DA0003	57	45	20	112	10	0	452
ELLS RIVER	00AT07DA0052	57	18	15	111	39	0	379
ELLS RIVER NEAR THE MOUTH NO.1 AOSERP	00AT07DA0020	57	18	23	111	40	20	293
EUNICE CREEK NEAR HINTON, ALBERTA	00AL07AF0003 979005005	53	9	9	117	13	54	118
EYMUNDSON CREEK APPROXIMATELY 4000 METERS UPSTREAM OF CONFLUENCE WITH ASPHALT CREEK AOSERP	00AT07DA0024	57	33	10	111	39	20	305
FIDDLE RIVER 5KM BELOW SULPHUR CREEK JASPER NATIONAL PARK ALBERTA	00AL07AA0042	53	10	5	117	49	0	90
FIREBAG RIVER WSC SITE AOSERP	00AT07DB0001	57	38	30	111	10	30	399
FOND DU LAC RIVER AT OUTLET OF BLACK LAKE, SASKATCHEWAN	00SA07LC0001 979005002	59	9	0	105	32	30	432
GARDINER LAKE LOWER SITE - AOSERP	01AT07DA0004	57	32	0	112	28	40	45



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GEIKIE RIVER BELOW JUNCTION OF WHEELER RIVER, SASKATCHEWAN	00SA07LA0001 97900S002	57	35	20	104	12	10	429
GORSACK'S SPRING- BAPTISTE LAKE PROJECT	00AT07BE0008	54	44	38	113	33	37	189
GREGOIRE LAKE AT WIER - AOSERP	01AT07CE0001	56	26	32	111	5	6	
HANGINGSTONE CREEK - AT HWY 63 -AOSERP	00AT07CD0001	56	42	18	111	21	20	221
HARTLEY CREEK - ONE-QUARTER MILE ABOVE CONFLUENCE WITH MUSKEG RIVER GAUGE - AOSERP	00AT07DA0013	57	15	34	111	27	53	272
HARTLEY CREEK - SE FORK - .25 MILES FROM JUNCTION WITH SW FORK - AOSERP	00AT07DA0011	57	9	23	111	23	27	266
HARTLEY CREEK - SE FORK - 13 MILES FROM JUNCTION WITH SW FORK - AOSERP	00AT07DA0019	57	4	22	111	11	18	290
HARTLEY CREEK - SW FORK - .25 MILES FROM JUNCTION WITH SE FORK - AOSERP	00AT07DA0010	57	11	21	111	23	44	263
HARTLEY CREEK - 2 MILES ABOVE CONFLUENCE WITH MUSKEG RIVER -AOSERP	00AT07DA0005	57	14	18	111	24	55	248
HARTLEY CREEK -SW FORK- 10 MILES FROM JUNCTION WITH SE FORK - AOSERP	00AT07DA0018	57	6	6	111	23	7	287
HORSE RIVER AT ABASANDS PARK - 2 MILES ABOVE CONFLUENCE WITH ATHABASCA RIVER - AOSERP	00AT07CC0002	56	42	20	111	23	40	215
HORSE RIVER NEAR FORT MCMURRAY 100 METERS ABOVE CONFLUENCE WITH ATHABASCA RIVER AOSERP	00AT07CC0003	56	43	6	111	23	40	218
JACKFISH CREEK APPROXIMATELY 500 METERS UP FROM CONFLUENCE WITH THE ATHABASCA RIVER SITE 70 AOSERP	00AT07DD0003	58	24	47	110	55	12	411
JOSLYN CREEK - 2 MILES ABOVE CONFLUENCE WITH ELLS RIVER - AT WSC GAUGE - AOSERP	00AT07DA0029	57	16	27	111	44	30	320
KEARL LAKE INLET - AOSERP	00AT07DA0016	57	16	28	111	13	30	281
KEARL LAKE OUTLET - AOSERP	00AT07DA0015	57	16	15	111	15	1	278
KEARL LAKE TRIBUTARY TO MUSKEG RIVER 1 MILE ABOVE CONFLUENCE WITH MUSKEG R. - AOSERP	00AT07DA0007	57	18	14	111	22	20	254
LAKE ATHABASCA NEAR CRACKINGSTONE POINT, SASKATCHEWAN	01SA07MC0001	59	22	54	108	52	51	474
LAKE ATHABASCA AT SANDY POINT - DUE WEST OF TIP OF SANDY POINT - AOSERP	01AT07MD0001	58	56	11	110	42	44	467

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LAKE CLAIRE AT 28TH BASELINE DUE WEST OF WILLOW POINT 2.75 MILES SITE 79 · AOSERP	01AT07KF0002	58	26	0	112	4	12	464
LAKE CLAIRE 10.5 KILOMETERS DUE EAST OF THE NORTH END OF BIRCH RIVER AOSERP SITE 78 AOSERP	01AT07KF0001	58	34	33	112	4	31	461
LESSER SLAVE RIVER AT SLAVE LAKE, ALBERTA	00AL07BK0005 97900S001	55	18	21	114	45	30	155
LOBSTICK RIVER AT WILDWOOD, ALBERTA	00AL07BB0007	53	36	57	115	13	48	134
LOST CREEK · ONE HALF MILE ABOVE THE MOUTH · AT WSC GAUGE · AOSERP	00AT07DC0002	57	17	20	110	27	50	402
LOWER ELLS RIVER · 2 MILES ABOVE CONFLUENCE WITH JOSLYN CREEK · AT WSC GAUGE · AOSERP	00AT07DA0030	57	16	4	111	42	51	323
LOWER TAR RIVER · 13 AIR MILES NORTH- WEST OF FORT MACKAY GAUGE · AOSERP	00AT07DA0028	57	21	14	111	45	29	317
MACKAY RIVER AT HWY. 63 AOSERP	00AT07DB0001	57	12	38	111	41	36	383
MALIGNE RIVER ABOVE MALIGNE CANYON AT FOURTH BRIDGE CROSSING JASPER NATIONAL PARK ALBERTA	00AL07AA0035	52	55	10	117	59	50	83
MALIGNE RIVER ABOVE MEDICINE LAKE JASPER NATIONAL PARK ALBERTA	00AL07AA0033	52	50	10	117	43	30	81
MALIGNE RIVER APPROX. 0.2 KM ABOVE THE MOUTH (AT SIXTH BRIDGE), JASPER NATIONAL PARK ALBERTA	00AL07AA0020 97900S004	52	56	0	118	1	48	52
MALIGNE RIVER AT OUTLET OF MALIGNE LAKE JASPER NATIONAL PARK ALBERTA	00AL07AA0031	52	43	45	117	38	45	79
MALIGNE RIVER AT OUTLET OF MEDICINE LAKE, JASPER NATIONAL PARK, ALBERTA	00AL07AA0027	52	52	12	117	48	45	73
MALIGNE RIVER BELOW MALIGNE CANYON AT FIFTH BRIDGE JASPER NATIONAL PARK ALBERTA	00AL07AA0036	52	55	35	118	1	5	84
MALIGNE RIVER 4KM BELOW MALIGNE LAKE (AT SECOND BRIDGE) JASPER NATIONAL PARK ALBERTA	00AL07AA0032	52	45	5	117	39	30	80
MAMAWI LAKE CHANNEL · AOSERP	00AT07KF0001	58	39	0	111	18	24	417
MCFARLANE RIVER AT OUTLET OF DAVY LAKE, SASKATCHEWAN	00SA07MB0001 97900S001	58	57		108	10		440
MCKAY RIVER	00AT07DB0005	57	10	0	111	45	21	395

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MCLEOD RIVER AT HWY 16, ALBERTA	00AL07AG0008	53	35	42	116	19	0	127
MCLEOD RIVER AT WHITECOURT	00AT07AG0002	54	8	18	115	41	51	173
MCLEOD RIVER AT WHITECOURT, ALBERTA	00AL07AG0001	54	8	20	115	41	50	120
MCLEOD RIVER SOUTH OF EDSON AT HWY 47, ALBERTA	00AL07AG0007	53	27	39	116	37	6	125
MIETTE RIVER ABOVE DECOIGNE WARDEN STATION JASPER NATIONAL PARK ALBERTA	00AL07AA0029	52	53	0	118	23	50	77
MIETTE RIVER ABOVE GEIKIE, JASPER NATIONAL PARK, ALBERTA	00AL07AA0026	52	51	30	118	15	39	70
MIETTE RIVER APPROXIMATELY 4KM ABOVE HWY 16 ROAD CROSSING JASPER NATIONAL PARK ALBERTA	00AL07AA0030	52	51	30	118	8	40	78
MIETTE RIVER AT HWY 16 WEST OF JASPER JASPER NATIONAL PARK ALBERTA	00AL07AA0056	52	51	45	117	5	45	104
MIETTE RIVER AT THE MOUTH AT HWY 93A, JASPER NATIONAL PARK, ALBERTA	00AL07AA0018 97900S001	52	51	54	118	4	12	46
MIETTE RIVER BELOW DECOIGNE WARDEN STATION JASPER NATIONAL PARK ALBERTA	00AL07AA0028	52	53	0	118	22	55	76
MUSKEG RIVER	00AT07DA0049	57	3	21	111	36	15	375
MUSKEG RIVER - SITE IS 2.2 MILES NORTH EAST OF FORT MACKAY - AT WSC GAUGE -AOSERP	00AT07DA0004	57	11	30	111	34	5	245
MUSKEG RIVER - 7 MILES UPSTREAM FROM STANLEY CREEK - AOSERP	00AT07DA0008	57	25	0	111	13	16	257
MUSKEG RIVER NEAR THE MOUTH - AOSERP	00AT07DA0003	57	8	5	111	36	8	242
MUSKEG RIVER 14 MILES UPSTREAM FROM STANLEY CREEK - AOSERP	00AT07DA0017	57	20	41	111	7	50	284
MUSKEG TRIBUTARY -3.5 MILES UPSTREAM FROM STANLEY CREEK AND .5 MILE UPSTREAM FROM CONFLUENCE WITH MUSKEG RIVER - AOSERP	00AT07DA0009	57	22	48	111	16	44	260
NAMUR LAKE AT BIRCH MOUNTAIN LODGE IN BIRCH MOUNTAINS AOSERP	01AT07DA0002	57	22	10	112	45	30	449
NARROWS NORTH WEST TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT	00AT07BE0011	54	46	4	113	33	53	195
NARROWS SOUTH WEST TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT	00AT07BE0010	54	45	16	113	33	55	193
NORTH BASIN BOTTOM WEST SIDE - BAPTISTE LAKE PROJECT	00AT07BE0012	54	46	48	113	34	17	197

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NORTH WEST TRIBUTARY TO SOUTH INLET OF TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT	00AT07BE0006	54	43	31	113	35	42	185
OUTHOUSE CREEK TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT	00AT07BE0003	54	43	25	113	33	3	179
OUTLET CREEK FROM BAPTISTE LAKE (SITE S01) - BAPTISTE LAKE PROJECT	00AT07BE0016	54	46	1	113	30	45	205
PADDLE RIVER NEAR ROCHEFORT BRIDGE, ALBERTA	00AL07BB0009 97900S004	53	53	51	115	2	21	136
PEMBINA RIVER AT ENTWISTLE, ALBERTA	00AL07BB0003 97900S002	53	36	18	115	0	15	131
PEMBINA RIVER AT JARVIE, ALBERTA	00AL07BC0001 97900S002	54	27	6	113	59	30	138
PEMBINA RIVER BELOW PADDY CREEK, ALBERTA	00AL07BA0001 97900S001	53	7	48	115	19	30	129
PIERRE RIVER - 20 MILES NORTH OF FORT MACKAY - AT WSC GAUGE - AOSERP	00AT07DA0025	57	27	55	111	39	14	308
POBOKTAN CREEK ABOVE WARDEN STATION JASPER NATIONAL PARK ALBERTA	00AL07AA0052	52	27	5	117	26	15	100
POBOKTAN CREEK AT HWY 93, JASPER NATIONAL PARK, ALBERTA	00AL07AA0012	52	27	0	117	26	30	28
POPLAR CREEK - 13 MILES NORTH OF FORT MCMURRAY VIA HWY 63 - AOSERP	00AT07DA0002	56	54	50	111	27	16	239
PRAIRIE RIVER-WSC. SITE - AOSERP	00AT07KF0003	58	37	25	111	40	50	423
RICHARDSON LAKE CENTER - AOSERP	01AT07DD0001	58	24	0	111	4	0	458
RICHARDSON RIVER AT WSC GAUGE - AOSERP	00AT07DD0002	58	21	48	111	14	14	408
RIPPLE CREEK ABOVE RIPPLE LAKE JASPER NATIONAL PARK ALBERTA	00AL07AA0045	52	13	10	117	13	10	93
RIPPLE CREEK AT SNOWMOBILE TOURS STAFF RESIDENCE ROAD JASPER NATIONAL PARK ALBERTA	00AL07AA0044	52	13	10	117	13	5	92
RIPPLE CREEK BELOW RIPPLE LAKE JASPER NATIONAL PARK ALBERTA	00AL07AA0046	52	13	5	117	13	25	94
RIPPLE CREEK OPPOSITE ICEFIELDS INFORMATION CENTRE JASPER NATIONAL PARK ALBERTA	00AL07AA0047	52	13	5	117	13	30	95



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RIVIERE DES ROCHERS 150 METERS UPSTREAM OF REVILLION COUPE	00AT07NA0001	58	50	42	111	15	32	426
ROCKY RIVER AT HWY 16 BRIDGE ABOUT 0.2 MILE ABOVE MOUTH, JASPER NATIONAL PARK, ALBERTA	00AL07AA0024 97900S003	53	8	24	117	58	33	64
SALINE CREEK - AOSERP	00AT07CD0002	56	42	10	111	20	38	224
SNAKE INDIAN RIVER ABOUT 1.2 MILES ABOVE DEVONA FLATS, JASPER NATIONAL PARK, ALBERTA	00AL07AB0001 97900S002	53	9	30	118	2	0	105
SNARING RIVER AT HWY 16 BRIDGE ABOUT 0.58 MILE ABOVE MOUTH, JASPER NATIONAL PARK, ALBERTA	00AL07AA0022	53	0	39	118	5	15	58
SOUTH BASIN, SOUTH EAST INLET - BAPTISTE LAKE PROJECT	00AT07BE0001	54	55	16	113	31	46	175
STANLEY CREEK - 1.5 MILES ABOVE CONFLUENCE WITH MUSKEG RIVER - AOSERP	00AT07DA0006	57	21	8	111	22	44	251
STEEPBANK RIVER	00AT07DA0048	57	1	30	111	29	6	373
STEEPBANK RIVER - 4.5 MILES UPSTREAM FROM THE MOUTH - AT WSC GAUGE - AOSERP	00AT07DA0001	57	0	17	111	24	53	236
SULPHUR CREEK ABOVE CONFLUENCE WITH FIDDLE RIVER JASPER NATIONAL PARK ALBERTA	00AL07AA0041	53	8	40	117	46	50	89
SULPHUR CREEK ABOVE MIETTE HOT SPRINGS JASPER NATIONAL PARK ALBERTA	00AL07AA0037	53	7	20	117	46	30	85
SULPHUR CREEK ABOVE MIETTE HOT SPRINGS ROAD CROSSING JASPER NATIONAL PARK, ALBERTA	00AL07AA0038	53	7	40	117	46	30	86
SULPHUR CREEK APPROX. 150M BELOW MIETTE HOT SPRINGS ROAD CROSSING JASPER NATIONAL PARK ALBERTA	00AL07AA0040	53	7	45	117	46	30	88
SULPHUR CREEK BELOW MIETTE HOT SPRINGS ROAD CROSSING JASPER NATIONAL PARK ALBERTA	00AL07AA0039	53	7	40	117	46	30	87
SUNWAPTA RIVER ABOVE SUNWAPTA FALLS, JASPER NATIONAL PARK, ALBERTA	00AL07AA0013	52	31	57	117	38	33	31
SUNWAPTA RIVER APPROX. 6.1 KM BELOW BEAUTY CREEK, JASPER NATIONAL PARK, ALBERTA	00AL07AA0011	52	22	24	117	21	54	25
SUNWAPTA RIVER AT ATHABASCA GLACIER, ALBERTA	00AL07AA0009 97900S007	52	13	9	117	14	0	19

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SUNWAPTA RIVER AT SHIVERS AND GOOSEBUMPS BRIDGE JASPER NATIONAL PARK ALBERTA	00AL07AA0048	52	12	45	117	14	0	96
SUNWAPTA RIVER BELOW SUNWAPTA LAKE JASPER NATIONAL PARK ALBERTA	00AL07AA0049	52	13	10	117	14	0	97
SURMONT CREEK - ABOUT 2 MILES ABOVE GREGOIRE LAKE - AOSERP	00AT07CE0001	56	27	1	111	3	45	230
SWAN RIVER AT KINUSO, ALBERTA 97900S001	00AL07BJ0001	55	19	45	115	24	51	152
TANGLE CREEK ABOVE WORK COMPOUND JASPER NATIONAL PARK ALBERTA	00AL07AA0050	52	16	5	117	17	25	98
TANGLE CREEK BELOW WORK COMPOUND JASPER NATIONAL PARK ALBERTA	00AL07AA0051	51	16	5	117	17	30	99
THICKWOOD CREEK - 1 MILE ABOVE CONFLUENCE WITH MACKAY RIVER - AT WSC GAUGE - AOSERP	00AT07DB0004	56	53	55	112	10	15	392
TRIBUTARY LEADING TO KEARL LAKE TRIBUTARY FEEDING THE MUSKEG RIVER 4 MILES FROM KEARL LAKE OUTLET -AOSERP	00AT07DA0014	57	15	42	111	19	18	275
TRIBUTARY TO BAPTISTE LAKE INTO SOUTH INLET 2 - BAPTISTE LAKE PROJECT	00AT07BE0005	54	43	23	113	34	3	183
TRIBUTARY TO BAPTISTE LAKE INTO SOUTH INLET 3 - BAPTISTE LAKE PROJECT	00AT07BE0007	54	44	29	113	33	46	187
TRIBUTARY TO BOTTOM NORTH BASIN, WEST SIDE OF BAPTISTE LAKE - BAPTISTE LAKE PROJECT	00AT07BE0013	54	47	9	113	34	31	199
TRIBUTARY TO MUSKEG RIVER 3 MILES UPSTREAM FROM HARTLEY CREEK -AOSERP	00AT07DA0012	57	15	8	111	21	54	269
TRIBUTARY TO TOP NORTH BASIN, WEST SIDE OF BAPTISTE LAKE - BAPTISTE LAKE PROJECT	00AT07BE0014	54	47	25	113	34	10	201
UNNAMED CREEK 34 AIR MILES NORTH OF FORT MACKAY IMMEDIATELY BELOW SMALL UNNAMED TRIBUTARY WSC SITE AOSERP	00AT07DA0022	57	39	31	111	31	11	299
UPPER ELLS RIVER - 5 MILES BELOW GARDINER LAKES - AT WSC GAUGE - AOSERP	00AT07DA0021	57	22	30	112	33	40	296
UPPER GARDNER LAKE IN BIRCH MOUNTAINS - WSC GAUGE ON WEST SHORE - AOSERP	01AT07DA0001	57	30	33	112	31	0	446
UPPER TAR RIVER - 26 AIR MILES NORTH WEST OF FORT MACKAY - AT WSC GAUGE - AOSERP	00AT07DA0034	57	29	5	112	1	10	335

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WAMPUS CREEK NEAR HINTON, ALBERTA	00AL07AF0001 97900S003	53	9	21	117	15	9	114
WATERBURY LAKE AT CREW CABIN, SASKATCHEWAN	01SA07LB0001	58	13		104	13		470
WHIRLPOOL RIVER AT HWY 93A, JASPER NATIONAL PARK, ALBERTA	00AL07AA0016 97900S009	52	43	21	117	55	27	40
WOLF CREEK AT HWY 16 CROSSING, ALBERTA	00AL07AG0004 97900S003	53	35	54	116	16	9	123

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

00AL07AA0007

52° 48' 39"

118°

2° 18'

11 430000

5851500

AUG 31 1972 TO/A OCT 03 1977

ATHABASCA RIVER ABOVE JASPER  
JASPER NATIONAL PARK ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0417	54(0)	39(0)	30(0)	55(27)	55(0)	54(0)	39(0)	39(0)	ECHANTILLONS(IND.)
LOW	0003	112.	59.	65.8	L5.	.5	7.8	48.4	-.6	MINIMUM
HIGH		408.	215.	211.	50.	230.	8.4	163.	.5	MAXIMUM
AVERAGE		168.	95.	98.0	9.*	30.4		75.2		MOYENNE
STD.DEV.		47.	27.	28.0	10.*	43.9		19.6		ECART-TYPE
PERCNT:10TH		120.	67.	68.0	L5.	1.5	7.9	57.0	-.4	10 <sup>e</sup> PERCNT
25TH		134.	70.	80.7	L5.	3.3	8.0	60.	-.3	25 <sup>e</sup>
MEDIAN 50TH		164.	93.	98.5	5.	10.	8.1	71.8	-.2	50 <sup>e</sup> MEDIANE
75TH		194.	111.	108.	8.	45.0	8.2	85.1	.0	75 <sup>e</sup>
90TH		211.	116.	119.5	20.	77.	8.3	92.0	.2	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONAT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0417	40(0)	40(0)	40(0)	31(0)	39(0)	39(0)	40(0)	40(0)	ECHANTILLONS(IND.)
LOW	0003	.1	.4	16.6	2.6	0.	59.	.1	6.8	MINIMUM
HIGH		1.6	3.5	50.0	20.9	0.	199.	4.5	40.1	MAXIMUM
AVERAGE		.4	.9	25.25	7.7	0.	92.	.6	15.9	MOYENNE
STD.DEV.		.3	.6	5.80	3.7	0.	24.	.8	7.2	ECART-TYPE
PERCNT:10TH		.2	.5	19.30	4.4	0.	69.	.2	8.0	10 <sup>e</sup> PERCNT
25TH		.3	.6	21.00	5.4	0.	73.	.2	10.9	25 <sup>e</sup>
MEDIAN 50TH		.3	.8	24.50	6.7	0.	88.	.3	14.5	50 <sup>e</sup> MEDIANE
75TH		.4	1.0	28.30	8.9	0.	104.	.6	20.0	75 <sup>e</sup>
90TH		.8	1.2	31.00	11.2	0.	112.	.8	21.3	90 <sup>e</sup>

SECONDARY CODE

03L

06L

01L 04L 06L CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	08101P OXYGEN DISSOLVED DO	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	MG/L	O2 MG/L	
SAMPLES(FLAGS)	0417	51(21)	43(0)	30(28)	30(27)	55(17)	38(0)	39(8)	18(0)	ECHANTILLONS(IND.)
LOW	0003	L.1	.04	L.002	L.001	L.003	1.9	L.5	9.4	MINIMUM
HIGH		.6	.9	.018	.018	.158	8.2	6.	13.7	MAXIMUM
AVERAGE		.2*	.146	.003*	.002*	.024*	3.62	2.4*	11.7	MOYENNE
STD.DEV.		.1*	.176	.003*	.003*	.036*	1.19	1.5*	1.2	ECART-TYPE
PERCNT:10TH		L.1	.05	L.002	L.001	L.003	2.1	L.0	9.8	10 <sup>e</sup> PERCNT
25TH		L.1	.060	L.002	L.001	L.005	2.9	1.0	10.7	25 <sup>e</sup>
MEDIAN 50TH		.1	.09	L.002	L.001	.009	3.70	2.0	11.9	50 <sup>e</sup> MEDIANE
75TH		.2	.13	L.003	L.003	.026	4.1	4.0	12.6	75 <sup>e</sup>
90TH		.3	.310	L.003	.003*	.097	4.4	5.0	13.0	90 <sup>e</sup>

SECONDARY CODE

01L

58L

56L

06L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0007** LAT. **52 D 48 M 39 S** LONG. **118 D 2 M 18 S**UTM **11 430000E 5851500 N**  
JUN 07, 1972 TO/A OCT 03, 1977ATHABASCA RIVER ABOVE JASPER,  
JASPER NATIONAL PARK, ALBERTA

	SUBM ID	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>15(6)</b>	<b>7(0)</b>	<b>7(7)</b>	<b>17(16)</b>	<b>16(7)</b>	<b>20(18)</b>	<b>18(4)</b>	<b>7(5)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0003</b>	<b>L.02</b>	<b>.031</b>	<b>L.001</b>	<b>L.010</b>	<b>L.01</b>	<b>L.001</b>	<b>L.04</b>	<b>L.002</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0417</b>	<b>.07</b>	<b>2.1</b>	<b>L.05</b>	<b>L.015</b>	<b>.22</b>	<b>L.05</b>	<b>2.00</b>	<b>.002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.03*</b>	<b>.497</b>		<b>.013*</b>	<b>.04*</b>	<b>.038*</b>	<b>.55*</b>	<b>.002*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.02*</b>	<b>.738</b>		<b>.003*</b>	<b>.06*</b>	<b>.018*</b>	<b>.67*</b>	<b>.000*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.02</b>			<b>L.010</b>	<b>L.01</b>	<b>L.001</b>	<b>L.04</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.02</b>	<b>.069</b>	<b>L.001</b>	<b>L.010</b>	<b>L.01</b>	<b>.030*</b>	<b>.05</b>	<b>L.002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.02</b>	<b>.24</b>	<b>L.001</b>	<b>L.015</b>	<b>.02</b>	<b>L.050</b>	<b>.36</b>	<b>L.002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.04</b>	<b>.67</b>	<b>L.001</b>	<b>L.015</b>	<b>.07</b>	<b>L.050</b>	<b>.88</b>	<b>.002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.05</b>			<b>L.015</b>	<b>.10</b>	<b>L.050</b>	<b>1.92</b>		<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>			<b>05P</b>	<b>01P</b>			<b>04L</b>	<b>04L</b>		<b>CODE DE SECOURS</b>

	SUBM ID	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>7(5)</b>	<b>17(9)</b>	<b>17(5)</b>	<b>14(13)</b>	<b>10(10)</b>	<b>7(0)</b>	<b>2(2)</b>	<b>11(11)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0003</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>L.0005</b>	<b>.11</b>	<b>L.05</b>	<b>L.00</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0103</b>	<b>.005</b>	<b>.005</b>	<b>.15</b>	<b>.008</b>	<b>L.0005</b>	<b>.27</b>	<b>L.10</b>	<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.001*</b>	<b>.001*</b>	<b>.011*</b>	<b>.0017*</b>		<b>.17</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.001*</b>	<b>.001*</b>	<b>.036*</b>	<b>.0024*</b>		<b>.05</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>L.0005</b>			<b>L.00</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.002</b>	<b>L.001</b>	<b>.001</b>	<b>L.0005</b>	<b>L.0005</b>	<b>.14</b>		<b>L.00</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.002</b>	<b>L.001</b>	<b>.002</b>	<b>L.0005</b>	<b>L.0005</b>	<b>.15</b>	<b>L.07</b>	<b>L.01</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.003</b>	<b>.001</b>	<b>.003</b>	<b>L.0005</b>	<b>L.0005</b>	<b>.20</b>		<b>L.01</b>	<b>75<sup>e</sup></b>
<b>90TH</b>			<b>.002</b>	<b>L.01</b>	<b>L.005</b>	<b>L.0005</b>			<b>L.01</b>	<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>				<b>04P</b>	<b>03L</b>					<b>CODE DE SECOURS</b>

	SUBM ID	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	80311P MERCURY EXTRBLE. HG UG/L	81301P THALLIUM EXTRBLE. TL MG/L	82302P LEAD EXTRBLE. PB MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06604P CYANIDE DISSOLVED CN MG/L	09105L FLUORIDE DISSOLVED F MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>17(12)</b>	<b>16(15)</b>	<b>15(15)</b>	<b>1(1)</b>	<b>17(13)</b>	<b>5(2)</b>	<b>6(4)</b>	<b>39(19)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0003</b>	<b>L.001</b>	<b>L.0</b>	<b>L.02</b>	<b>L.10</b>	<b>L.001</b>	<b>L.001</b>	<b>L.005</b>	<b>L.05</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0417</b>	<b>.004</b>	<b>L.1</b>	<b>L.05</b>	<b>L.10</b>	<b>.004</b>	<b>.003</b>	<b>.006</b>	<b>.09</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.001*</b>	<b>.1*</b>			<b>.003*</b>	<b>.001*</b>	<b>.005*</b>	<b>.06*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.001*</b>	<b>.0*</b>			<b>.001*</b>	<b>.001*</b>	<b>.000*</b>	<b>.01*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.001</b>	<b>L.0</b>	<b>L.02</b>		<b>L.001</b>			<b>L.05</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.001</b>	<b>L.0</b>	<b>L.05</b>		<b>L.001</b>	<b>L.001</b>	<b>L.005</b>	<b>L.05</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.001</b>	<b>L.1</b>	<b>L.05</b>		<b>L.004</b>	<b>.001</b>	<b>L.005</b>	<b>.05</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.001</b>	<b>L.1</b>	<b>L.05</b>		<b>L.004</b>	<b>.001</b>	<b>.005</b>	<b>.06</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.001</b>	<b>L.1</b>	<b>L.05</b>		<b>.004</b>			<b>.07</b>	<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>				<b>13P</b>	<b>02P</b>					<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

00AL07AA0007

52 48M 39

118 2M 18

11 430000 5851500  
AUG 30 1971 TO/A OCT 24 1976ATHABASCA RIVER ABOVE JASPER  
JASPER NATIONAL PARK ALBERTA

		36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT DENS. NO/ML	18130L ALDRIN UG/L	18075L ALPHA- BHC UG/L	18070L GAMMA- BHC (LINDRIN) UG/L	18150L HEOD (DIELDRIN) UG/L	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL							
SAMPLES(FLAGS)	0103	24(2)	25(11)	25(6)	16(7)	14(14)	3(0)	16(15)	13(13)	ECHANTILLONS(IND.)
LOW	0003	L1.	L1.	L1.	25.	L.001	.001	L.001	L.002	MINIMUM
HIGH	0417	82.	21.	27.	2100.	L.001	.01	.001	L.002	MAXIMUM
AVERAGE		18.*	3.*	8.*	207.*		.006	.001*		MOYENNE
STD.DEV.		19.*	5.*	9.*	516.*		.005	.000*		ECART-TYPE
PERCNT:10TH		1.	L1.	L1.	29.	L.001		L.001	L.002	10 <sup>e</sup> PERCNT
25TH		4.	L1.	1.	L30.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH		15.	1.	4.	L30.	L.001	.006	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH		25.	4.	11.	85.	L.001		L.001	L.002	75 <sup>e</sup>
90TH		44.	7.	24.	360.	L.001		L.001	L.002	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	12(11)	14(14)	14(14)	14(14)	14(14)	14(14)	14(14)	14(14)	ECHANTILLONS(IND.)
LOW	0417	L.002	L.004	L.001	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH		.012	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE		.004*								MOYENNE
STD.DEV.		.002*								ECART-TYPE
PERCNT:10TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	10 <sup>e</sup> PERCNT
25TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	12(12)	14(14)	13(11)	12(12)	11(11)	12(11)	12(11)	11(11)	ECHANTILLONS(IND.)
LOW	0417	L.2	L.01	L.004	L.001	L.006	.012	L.02	L.055	MINIMUM
HIGH	0003	L.2	L.012	.025	L.002	L.009	L.032	.066	L.06	MAXIMUM
AVERAGE				.006*			.030*	.026*		MOYENNE
STD.DEV.				.006*			.006*	.013*		ECART-TYPE
PERCNT:10TH		L.2	L.012	L.004	L.001	L.009	L.03	L.02	L.055	10 <sup>e</sup> PERCNT
25TH		L.200	L.012	L.004	L.002	L.009	L.030	L.022	L.055	25 <sup>e</sup>
MEDIAN 50TH		L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH		L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.06	75 <sup>e</sup>
90TH		L.2	L.012	.009	L.002	L.009	L.032	L.024	L.06	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0009 LAT. 52 D 13M 9 S LONG. 117 D 14M 0 S

UTM 11 484100E 5785200 N  
JUN 12, 1973 TO/A OCT 21, 1976SUNWAPTA RIVER AT ATHABASCA GLACIER,  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0417	30(0)	14(1)	12(0)	30(6)	30(0)	30(0)	15(0)	14(1)	ECHANTILLONS(IND.)
LOW		75.	54.	54.0	L5.	4.8	7.8	47.0	-.6	MINIMUM
HIGH		291.	143.	141.	60.	310.	8.6	104.	.2	MAXIMUM
AVERAGE		151.	87.*	83.9	13.*	61.4		70.2		MOYENNE
STD.DEV.		55.	27.*	27.6	13.*	61.7		19.3		ECART-TYPE
PERCNT:10TH		93.	55.	55.0	L5.	12.5	8.0	49.0	-.5	10 <sup>e</sup> PERCNT
25TH		107.	64.	59.5	5.	24.	8.1	50.0	-.3	25 <sup>e</sup>
MEDIAN 50TH		132.	84.	79.5	5.	42.5	8.2	68.3	-.1	50 <sup>e</sup> MEDIANE
75TH		190.	104.	104.0	15.	89.	8.4	87.8	.0	75 <sup>e</sup>
90TH		216.	123.	112.	30.	110.5	8.5	96.0	.2	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM <sub>2</sub> DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0417	14(0)	15(0)	15(0)	12(0)	15(0)	15(0)	15(1)	15(0)	ECHANTILLONS(IND.)
LOW		.2	.1	17.0	1.2	0.	57.	L.1	2.6	MINIMUM
HIGH		1.2	.8	31.0	15.4	0.	127.	1.2	32.0	MAXIMUM
AVERAGE		.4	.4	22.91	6.3	0.	86.	.5*	11.6	MOYENNE
STD.DEV.		.3	.2	5.06	3.8	0.	23.	.3*	8.5	ECART-TYPE
PERCNT:10TH		.2	.2	17.5	1.8	0.	60.	.2	4.1	10 <sup>e</sup> PERCNT
25TH		.3	.2	18.0	3.7	0.	61.	.2	5.3	25 <sup>e</sup>
MEDIAN 50TH		.3	.5	22.0	6.5	0.	83.	.4	9.6	50 <sup>e</sup> MEDIANE
75TH		.5	.6	28.0	7.7	0.	107.	.7	15.	75 <sup>e</sup>
90TH		1.0	.7	30.0	9.6	0.	117.	.9	26.	90 <sup>e</sup>
SECONDARY CODE										03L 08L 06L 04L CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO O2 MG/L	
SAMPLES(FLAGS)	0417	28(10)	24(0)	12(10)	12(10)	29(1)	14(0)	15(1)	7(0)	ECHANTILLONS(IND.)
LOW		L.1	.040	L.002	L.001	.003	.6	L0.	7.4	MINIMUM
HIGH		.4	.400	.028	.028	.120	3.0	6.0	12.0	MAXIMUM
AVERAGE		.2*	.109	.005*	.004*	.029*	1.94	2.7*	10.3	MOYENNE
STD.DEV.		.1*	.093	.007*	.008*	.030*	.79	1.8*	1.5	ECART-TYPE
PERCNT:10TH		L.1	.04	L.002	L.001	L.005	1.0	1.		10 <sup>e</sup> PERCNT
25TH		L.1	.050	L.002	L.001	.012	1.1	1.0	9.3	25 <sup>e</sup>
MEDIAN 50TH		.1	.085	L.002	L.001	.018	2.15	2.	10.9	50 <sup>e</sup> MEDIANE
75TH		.2	.110	L.003	L.003	.037	2.5	5.0	11.0	75 <sup>e</sup>
90TH		.3	.200	.005	.010	.090	3.0	5.0		90 <sup>e</sup>
SECONDARY CODE										01L 56L 56L 06L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0009 LAT 52 D 13M 9 S LONG 117 D 14M 0 S

UTM 11 484100E 5785200N  
JUL 13 1971 TO A AUG 11 1975SUNWAPTA RIVER AT ATHABASCA GLACIER  
ALBERTA

	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	
SUBM	B	AL	V	CR	MN	FE	FE	CO	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0417	7(4)	3(0)	3(3)	10(10)	10(3)	6(6)	10(0)	3(3)
LOW	0103	L.02	.82	L.05	L.010	L.01	L.04	.16	L.001
HIGH		.03	2.4	L.05	L.015	.08	L.05	2.20	L.01
AVERAGE		.02*	1.807		.04*			1.03	
STD.DEV.		.00*	.860		.03*			.84	
PERCNT:10TH					L.010	L.01		.17	
25TH		L.02			L.010	L.01	L.05	.45	
MEDIAN 50TH		L.02	2.2	L.05	L.010	.03	L.050	.54	L.01
75TH		.02			L.010	.05	L.05	1.84	
90TH					L.015	.08		2.15	
SECONDARY CODE			01P			04L		01P	CODE DE SECOURS

ECHANTILLONS(IND.)  
MINIMUM  
MAXIMUM  
MOYENNE  
ECART-TYPE10<sup>e</sup> PERCNT  
25<sup>e</sup>  
50<sup>e</sup> MEDIANE  
75<sup>e</sup>  
90<sup>e</sup>

	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	
SUBM	NI	CU	ZN	AS	SE	SR	MO	AG	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0417	3(3)	10(3)	10(4)	8(6)	3(3)	3(0)	3(3)	10(10)
LOW	0103	L.001	L.001	L.001	L.0005	L.0005	.11	L.05	L.00
HIGH		L.01	.009	.012	.016	L.0005	.26	L.05	L.01
AVERAGE		.002*	.004*	.0041*			.20		
STD.DEV.		.003*	.004*	.0053*		.08			
PERCNT:10TH		L.001	L.001					L.00	
25TH		L.001	L.001	L.0005				L.01	
MEDIAN 50TH		L.01	.002	L.0027	L.0005	.23	L.05	L.01	
75TH			.006	.0050*				L.01	
90TH		.007	.011*					L.01	
SECONDARY CODE		01P	04P	03L					CODE DE SECOURS

ECHANTILLONS(IND.)  
MINIMUM  
MAXIMUM  
MOYENNE  
ECART-TYPE10<sup>e</sup> PERCNT  
25<sup>e</sup>  
50<sup>e</sup> MEDIANE  
75<sup>e</sup>  
90<sup>e</sup>

	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
SUBM	CD	BA	HG	TL	PB	PHENOL	CN	F	
ID	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0417	10(6)	10(10)	7(7)	3(3)	10(8)		15(4)	
LOW	0103	L.001	L.0	L.05	L.10	L.001		L.05	
HIGH		L.01	L.1	L.05	L.2	.005		.13	
AVERAGE		.003*				.002*		.07*	
STD.DEV.		.004*				.002*		.02*	
PERCNT:10TH		L.001	L.0			L.001		L.05	
25TH		L.001	L.1	L.05		L.001		L.05	
MEDIAN 50TH		.001	L.1	L.05	L.2	L.001		.03	
75TH		.002	L.1	L.05		L.004		.08	
90TH		L.010	L.1			.005		.09	
SECONDARY CODE		01P		02P					CODE DE SECOURS

ECHANTILLONS(IND.)  
MINIMUM  
MAXIMUM  
MOYENNE  
ECART-TYPE10<sup>e</sup> PERCNT  
25<sup>e</sup>  
50<sup>e</sup> MEDIANE  
75<sup>e</sup>  
90<sup>e</sup>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0009** LAT. **52 D 13M 9 S** LONG. **117 D 14M 0 S**UTM **11 484100E 5785200 N**  
JUN 12, 1973 TO/A OCT 21, 1976SUNWAPTA RIVER AT ATHABASCA GLACIER,  
ALBERTA

		36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT.DENS.	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
	SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	NO/ML	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	0417	25(3)	25(7)	25(6)	11(5)	7(7)	1(0)	7(4)	7(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		1.	L1.	L1.	20.	L.001	.003	L.001	L.002	<b>MINIMUM</b>
<b>HIGH</b>		G6000.	1400.	1200.	G3000.	L.001	.003	.001	L.002	<b>MAXIMUM</b>
<b>AVERAGE</b>		1725.*	197.*	114.*	699.*			.001*		<b>MOYENNE</b>
<b>STD.DEV.</b>		1853.*	328.*	242.*	1151.*			.000*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		7.	L1.	L1.	L30.					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		40.	1.	9.	L30.	L.001		L.001	L.002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		1030.	18.	39.	200.	L.001		.001	L.002	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		3100.	240.	G120.	540.	L.001		.001	L.002	<b>75<sup>e</sup></b>
<b>90TH</b>		4500.	550.	160.	G3000.					<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

		18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	0417	7(7)	7(7)	7(7)	7(7)	7(7)	7(7)	7(7)	7(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>MINIMUM</b>
<b>HIGH</b>		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

		18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	0417	7(7)	7(7)	7(7)	7(7)	7(7)	7(7)	7(7)	6(6)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		L.2	L.002	L.004	L.002	L.009	L.03	L.02	L.055	<b>MINIMUM</b>
<b>HIGH</b>		L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.06	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.2	L.01	L.004	L.002	L.009	L.032	L.024	L.055	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0010 LAT 52 D 30 M 39 S LONG 117 D 40 M 0 S

UTM 11 454800 5817800 N  
AUG 31 1972 TO A JAN 21 1976ATHABASCA RIVER 1.35 MILES ABOVE  
CONFLUENCE WITH SUNWAPTA RIVER

	02041L SPECIFIC CONDUCT	06203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	SATURATION INDEX (CALCD.)	
	USE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0417	20(0)	20(0)	16(0)	20(11)	20(0)	20(0)	20(0)	ECHANTILLONS(IND.)
LOW		124.	52.	46.	15.	7.8	40.	-7	MINIMUM
HIGH		217.	113.	122.	40.	8.3	93.7	.0	MAXIMUM
AVERAGE		160.	85.	83.5	9.	24.4	70.5		MOYENNE
STD.DEV.		22	13.	16.9	10.	26.3	11.2		ECART-TYPE
PERCNT:10TH		137	70.	68.0	15.	2.5	59.0	.6	10 <sup>e</sup> PERCNT
25TH		145	76.	74.5	15.	3.5	64.0	.4	25 <sup>e</sup>
MEDIAN 50TH		157.	86.	83.5	15.	8.0	71.5	-.2	50 <sup>e</sup> MEDIANE
75TH		172	93.	92.8	8.	39.5	77.4	-.1	75 <sup>e</sup>
90TH		192	101.	100.	25.	63.0	81.4	.0	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0417	20(0)	20(0)	16(0)	20(0)	20(0)	20(0)	20(0)	ECHANTILLONS(IND.)
LOW	.1	.2	13.	2.8	0.	49.	.1	5.3	MINIMUM
HIGH	.7	1.1	31.8	10.5	0.	114.	.8	19.1	MAXIMUM
AVERAGE	.3	.6	23.15	6.3	0.	86.	.4	11.8	MOYENNE
STD.DEV.	1	.2	3.57	2.3	0.	14.	.2	3.5	ECART-TYPE
PERCNT:10TH	.2	.4	19.75	3.3	0.	72.	.1	7.7	10 <sup>e</sup> PERCNT
25TH	.2	.5	22.00	4.6	0.	78.	.2	9.1	25 <sup>e</sup>
MEDIAN 50TH	.3	.6	23.00	5.7	0.	87.	.3	11.0	50 <sup>e</sup> MEDIANE
75TH	.3	.8	25.00	8.0	0.	94.	.5	14.8	75 <sup>e</sup>
90TH	.5	1.0	26.05	10.3	0.	99.	.7	16.0	90 <sup>e</sup>
SECONDARY CODE			03L				06L	06L 04L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	08101P OXYGEN DISSOLVED DO	
	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0417	18(3)	20(0)	15(15)	16(16)	20(8)	19(0)	20(2)	ECHANTILLONS(IND.)
LOW	.1	.040	L.002	L.001	L.003	1.8	L0.	9.4	MINIMUM
HIGH	.4	1.60	L.003	L.003	.110	4.6	6.	12.8	MAXIMUM
AVERAGE	.2*	.233			.017*	3.08	2.2*	10.8	MOYENNE
STD.DEV.	.1*	.351			.026*	.77	1.4*	1.1	ECART-TYPE
PERCNT:10TH	L 1	.060	L.002	L.001	L.003	2.0	1.0*	9.5	10 <sup>e</sup> PERCNT
25TH	1	.075	L.002	L.001	L.003	2.3	1.0	9.6	25 <sup>e</sup>
MEDIAN 50TH	.2	.120	L.003	L.002	.008	3.2	2.0	11.1	50 <sup>e</sup> MEDIANE
75TH	3	.175	L.003	L.003	.015	3.6	3.0	11.5	75 <sup>e</sup>
90TH	4	.540	L.003	L.003	.047	4.0	4.5	11.6	90 <sup>e</sup>
SECONDARY CODE		01L	56L	56L	06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0010** LAT. **52 D 30 M 39 S** LONG. **117 D 40 M 0 S**UTM **11 454800E 5817800 N**  
AUG 31, 1972 TO/A AUG 12, 1975ATHABASCA RIVER 1.35 MILES ABOVE  
CONFLUENCE WITH SUNWAPTA RIVER.

	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	
SUBM	B	AL	V	CR	MN	FE	FE	CO	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0417	6(3)			8(8)	7(3)	8(7)	9(2)		<b>ECHANTILLONS(IND.)</b>
LOW	L.02			L.010	L.01	L.04	L.04		<b>MINIMUM</b>
HIGH	.04			L.015	.07	L.05	2.10		<b>MAXIMUM</b>
AVERAGE	.02*				.02*	.046*	.55*		<b>MOYENNE</b>
STD.DEV.	.01*				.02*	.005*	.70*		<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH	L.02			L.010	L.01	.040*	.05		<b>25<sup>e</sup></b>
MEDIAN 50TH	.02*			L.010	.02	L.050	.36		<b>50<sup>e</sup> MEDIANE</b>
75TH	.03			L.015	.03	L.050	.60		<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE						04L	04L		<b>CODE DE SECOURS</b>

	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	
SUBM	NI	CU	ZN	AS	SE	SR	MO	AG	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0417		8(4)	8(0)	5(5)	4(3)			8(8)	<b>ECHANTILLONS(IND.)</b>
LOW		L.001	.001	L.0005	L.0005			L.00	<b>MINIMUM</b>
HIGH		.010	.006	L.0005	.0007			L.01	<b>MAXIMUM</b>
AVERAGE		.002*	.003		.0005*				<b>MOYENNE</b>
STD.DEV.		.003*	.002		.0001*				<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH		L.001	.002	L.0005	L.0005			L.00	<b>25<sup>e</sup></b>
MEDIAN 50TH		.001*	.003	L.0005	L.0005			L.01	<b>50<sup>e</sup> MEDIANE</b>
75TH		.002	.004	L.0005	.0006*			L.01	<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE									<b>CODE DE SECOURS</b>

	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
SUBM	CD	BA	HG	TL	PB	PHENOL	CN	F	
ID	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0417	7(4)	8(7)	7(7)		8(7)			20(4)	<b>ECHANTILLONS(IND.)</b>
LOW	L.001	L.0	L.05		L.001			L.05	<b>MINIMUM</b>
HIGH	.002	L.1	L.05		.004			.09	<b>MAXIMUM</b>
AVERAGE	.001*	.1*			.002*			.07*	<b>MOYENNE</b>
STD.DEV.	.000*	.0*			.002*			.01*	<b>ECART-TYPE</b>
PERCNT:10TH								L.05	<b>10<sup>e</sup> PERCNT</b>
25TH	L.001	.1*	L.05		L.001			.05	<b>25<sup>e</sup></b>
MEDIAN 50TH	L.001	L.1	L.05		L.001			.06	<b>50<sup>e</sup> MEDIANE</b>
75TH	.001	L.1	L.05		L.004			.08	<b>75<sup>e</sup></b>
90TH								.09	<b>90<sup>e</sup></b>
SECONDARY CODE									<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0010 LAT 52 D 30 M 39 S LONG 117 D 40 M 0 S

UTM 11 454800E 5817800 N  
AUG 31, 1972 TO/A JAN 21, 1976ATHABASCA RIVER 1.35 MILES ABOVE  
CONFLUENCE WITH SUNWAPTA RIVER.

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT DENS	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	NO/ML	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417				12(8)	8(8)	1(0)	8(8)	8(8)	ECHANTILLONS(IND.)
LOW				L30.	L.001	.002	L.001	L.002	MINIMUM
HIGH				810.	L.001	.002	L.001	L.002	MAXIMUM
AVERAGE				110.*					MOYENNE
STD.DEV.				223.*					ECART-TYPE
PERCNT:10TH				L30.					10 <sup>e</sup> PERCNT
25TH				L30.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH				L30.	L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH				70.	L.001		L.001	L.002	75 <sup>e</sup>
90TH				130.					90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	8(8)	8(8)	8(8)	8(8)	8(8)	8(8)	8(8)	8(8)	ECHANTILLONS(IND.)
LOW	L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DG	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	7(7)	8(8)	8(8)	8(8)	8(8)	6(6)	6(6)	6(6)	ECHANTILLONS(IND.)
LOW	L.2	L.01	L.004	L.001	L.006	L.03	L.02	L.055	MINIMUM
HIGH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0011** LAT. **52 D 22 M 24 S** LONG. **117 D 21 M 54 S**

UTM **11 475200E 5802400 N**  
JUN 12, 1973 TO/À OCT 21, 1976

SUNWAPTA RIVER APPROX. 6.1 KM BELOW  
BEAUTY CREEK, JASPER NATIONAL PARK,

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS) 0417	40(0)	25(0)	21(0)	39(20)	40(1)	39(0)	25(0)	25(0)	ECHANTILLONS(IND.)
LOW	148.	80.	77.0	L5.	.4	7.7	64.0	-.4	MINIMUM
HIGH	315.	175.	159.	125.	220.	8.3	103.	.2	MAXIMUM
AVERAGE	211.	125.	120.6	11.*	35.3*		85.4		MOYENNE
STD.DEV.	46.	27.	26.0	20.*	52.1*		10.6		ECART-TYPE
PERCNT:10TH	153.	85.	86.0	L5.	1.1	7.9	71.0	-.3	10 <sup>e</sup> PERCNT
25TH	169.	100.	94.0	L5.	2.0	8.0	75.	-.1	25 <sup>e</sup>
MEDIAN 50TH	215.	126.	125.	L5.	7.3	8.1	88.	.0	50 <sup>e</sup> MEDIANE
75TH	239.	145.	140.	5.	56.5	8.2	93.	.1	75 <sup>e</sup>
90TH	276.	163.	152.	20.	110.0	8.2	98.	.2	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0417	25(0)	25(0)	25(0)	21(0)	25(0)	25(0)	25(0)	25(0)	ECHANTILLONS(IND.)
LOW	.2	.4	22.0	2.9	0.	78.	.2	11.	MINIMUM
HIGH	.8	1.2	40.	14.5	0.	126.	1.0	61.0	MAXIMUM
AVERAGE	.4	.8	31.14	10.2	0.	104.	.6	30.6	MOYENNE
STD.DEV.	.2	.2	5.63	3.2	0.	13.	.2	13.5	ECART-TYPE
PERCNT:10TH	.2	.4	23.0	6.9	0.	87.	.3	12.0	10 <sup>e</sup> PERCNT
25TH	.2	.6	26.0	8.3	0.	91.	.5	22.0	25 <sup>e</sup>
MEDIAN 50TH	.3	.8	31.3	10.4	0.	107.	.6	31.0	50 <sup>e</sup> MEDIANE
75TH	.4	1.0	35.5	12.3	0.	113.	.8	38.	75 <sup>e</sup>
90TH	.7	1.1	37.0	14.4	0.	119.	1.0	49.	90 <sup>e</sup>
SECONDARY CODE			03L				06L	01L 06L 04L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15255L PHOSPHORUS DISSOLVED ORTH PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO MG/L	
SUBM ID									
SAMPLES(FLAGS) 0417	36(13)	34(0)	21(20)	21(19)	40(17)	25(0)	25(3)	13(0)	ECHANTILLONS(IND.)
LOW	.1	.06	L.002	L.001	L.003	1.7	L.5	8.8	MINIMUM
HIGH	.8	.620	.005	.005	.090	3.5	5.	11.6	MAXIMUM
AVERAGE	.2*	.144	.003*	.002*	.014*	2.87	2.1*	10.7	MOYENNE
STD.DEV.	.1*	.107	.001*	.001*	.019*	.53	1.3*	.8	ECART-TYPE
PERCNT:10TH	L.1	.07	L.002	L.001	L.003	2.0	L.5	9.4	10 <sup>e</sup> PERCNT
25TH	L.1	.08	L.002	L.001	.003	2.8	1.0	10.3	25 <sup>e</sup>
MEDIAN 50TH	.1	.120	L.002	L.001	.005*	3.0	2.0	11.0	50 <sup>e</sup> MEDIANE
75TH	.2	.15	L.003	L.003	.017	3.3	3.	11.1	75 <sup>e</sup>
90TH	.3	.230	L.003	L.003	.044	3.4	4.0	11.4	90 <sup>e</sup>
SECONDARY CODE	01L		56L	56L	06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0011 LAT 52 D 22M 24 S LONG 117 D 21M 54 S

UTM 11 475200E 5802400N  
JUN 12 1973 TO A AUG 11 1975SUNWAPTA RIVER APPROX 6.1 KM BELOW  
BEAUTY CREEK JASPER NATIONAL PARK

	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE	23302P VANADIUM EXTRBLE	24102P CHROMIUM EXTRBLE	25304P MANGANESE EXTRBLE	26102L IRON DISSOLVED	26104P IRON EXTRBLE	27102P COBALT EXTRBLE
SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L
SAMPLES(FLAGS) 0417	7(5)			8(7)	8(4)	13(13)	9(3)	
LOW	L.02			L.010	L.01	L.04	L.04	
HIGH	.03			L.015	.05	L.05	1.30	
AVERAGE	.02*			.012*	.02*		.41*	
STD.DEV.	.00*			.003*	.02*		.53*	
PERCNT:10TH						L.04		
25TH	L.02			L.010	L.01	L.04	L.05	
MEDIAN 50TH	L.02			.010*	.01*	L.05	.13	
75TH	.03			L.015	.03	L.05	.52	
90TH						L.05		
SECONDARY CODE						04L	04L	

ECHANTILLONS(IND.)  
MINIMUM  
MAXIMUM  
MOYENNE  
ECART-TYPE  
10<sup>e</sup> PERCNT  
25<sup>e</sup>  
50<sup>e</sup> MEDIANE  
75<sup>e</sup>  
90<sup>e</sup>  
CODE DE SECOURS

	28302P NICKEL EXTRBLE	29305P COPPER EXTRBLE	30305P ZINC EXTRBLE	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBLE	42301P MOLYBDENUM EXTRBLE	47301P SILVER EXTRBLE
SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L
SAMPLES(FLAGS) 0417		8(3)	8(3)	6(6)	4(4)			8(8)
LOW		L.001	L.001	L.0005	L.0005			L.00
HIGH		.003	L.01	L.005	L.0005			L.01
AVERAGE		.002*	.004*					
STD.DEV.		.001*	.003*					
PERCNT:10TH								
25TH		L.001	.002*	L.0005	L.0005			L.00
MEDIAN 50TH		.001	.004	L.0005	L.0005			L.01
75TH		.002	.006	L.0005	L.0005			L.01
90TH								
SECONDARY CODE			04P	03L				

ECHANTILLONS(IND.)  
MINIMUM  
MAXIMUM  
MOYENNE  
ECART-TYPE  
10<sup>e</sup> PERCNT  
25<sup>e</sup>  
50<sup>e</sup> MEDIANE  
75<sup>e</sup>  
90<sup>e</sup>  
CODE DE SECOURS

	48302P CADMIUM EXTRBLE	56301P BARIUM EXTRBLE	80311P MERCURY EXTRBLE	81301P THALLIUM EXTRBLE	82302P LEAD EXTRBLE	06535P PHENOLIC MATERIAL PHENOL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED
SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PHENOL MG/L	CN MG/L	F MG/L
SAMPLES(FLAGS) 0417	8(4)	8(8)	8(8)		8(6)			25(2)
LOW	L.001	L.0	L.05		L.001			L.05
HIGH	.002	L.1	L.05		.007			.13
AVERAGE	.001*				.003*			.08*
STD.DEV.	.000*				.002*			.02*
PERCNT:10TH								.05
25TH	L.001	L.0	L.05		L.001			.07
MEDIAN 50TH	.001*	L.1	L.05		L.002			.08
75TH	.001	L.1	L.05		.004*			.10
90TH								.12
SECONDARY CODE								

ECHANTILLONS(IND.)  
MINIMUM  
MAXIMUM  
MOYENNE  
ECART-TYPE  
10<sup>e</sup> PERCNT  
25<sup>e</sup>  
50<sup>e</sup> MEDIANE  
75<sup>e</sup>  
90<sup>e</sup>  
CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0011** LAT. **52 D 22 M 24 S** LONG. **117 D 21 M 54 S**

UTM **11 475200E 5802400 N**  
JUN 12, 1973 TO/À OCT 21, 1976

SUNWAPTA RIVER APPROX. 6.1 KM BELOW  
BEAUTY CREEK, JASPER NATIONAL PARK,

		36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT.DENS.	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
	SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	NO/ML	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>25(4)</b>	<b>25(12)</b>	<b>25(8)</b>	<b>15(9)</b>	<b>9(9)</b>	<b>1(0)</b>	<b>9(8)</b>	<b>9(9)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>L30.</b>	<b>L.001</b>	<b>.007</b>	<b>L.001</b>	<b>L.002</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>570.</b>	<b>30.</b>	<b>18.</b>	<b>1000.</b>	<b>L.001</b>	<b>.007</b>	<b>.001</b>	<b>L.002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>59.*</b>	<b>4.*</b>	<b>4.*</b>	<b>131.*</b>			<b>.001*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>115.*</b>	<b>6.*</b>	<b>5.*</b>	<b>254.*</b>			<b>.000*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>1.</b>	<b>L1.</b>	<b>L1.</b>	<b>L30.</b>					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>5.</b>	<b>L1.</b>	<b>L1.</b>	<b>L30.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>11.</b>	<b>1.</b>	<b>2.</b>	<b>L30.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>67.</b>	<b>4.</b>	<b>5.</b>	<b>130.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>G120.</b>	<b>9.</b>	<b>13.</b>	<b>320.</b>					<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(8)</b>	<b>8(8)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.2</b>	<b>L.01</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.03</b>	<b>L.02</b>	<b>L.055</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.2</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>.165</b>	<b>L.06</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>								<b>.039*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>								<b>.047*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.2</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.2</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.2</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0012 LAT. 52 D 27M 0 S LONG. 117 D 26M 30 S

UTM 11 470000E 5811000 N  
OCT 01 1972 TO/A OCT 21 1976POBOKTAN CREEK AT HWY 93 JASPER  
NATIONAL PARK ALBERTA

		32041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0417	42(0)	27(0)	23(0)	42(24)	42(0)	40(0)	27(0)	26(0)	ECHANTILLONS(IND.)
LOW	0435	112.	63.	59.0	L5.	.2	7.7	49.0	-.7	MINIMUM
HIGH		340.	191.	176.	30.	43.0	8.2	138.	.4	MAXIMUM
AVERAGE		216.	135.	123.5	8.*	6.7		82.3		MOYENNE
STD.DEV.		70.	43.	38.2	8.*	8.3		20.2		ECART-TYPE
PERCNT:10TH		126.	76.	71.0	L5.	.7	7.9	56.0	-.5	10 <sup>e</sup> PERCNT
25TH		157.	93.	86.	L5.	1.3	8.0	63.	-.3	25 <sup>e</sup>
MEDIAN 50TH		204.	144.	133.	L5.	3.2	8.1	85.	.0	50 <sup>e</sup> MEDIANE
75TH		260.	174.	160.	5.	10.	8.1	97.0	.1	75 <sup>e</sup>
90TH		320.	190.	166.	20.	15.	8.2	101.	.2	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0417	27(0)	27(0)	27(0)	23(0)	27(0)	27(0)	27(0)	27(0)	ECHANTILLONS(IND.)
LOW	0435	.3	.8	18.0	2.0	0.	60.	.2	7.9	MINIMUM
HIGH		1.2	4.4	45.	18.5	0.	168.	.9	71.0	MAXIMUM
AVERAGE		.6	2.8	31.29	10.7	0.	100.	.5	39.8	MOYENNE
STD.DEV.		.2	1.1	9.28	4.5	0.	25.	.2	19.7	ECART-TYPE
PERCNT:10TH		.4	1.3	18.0	4.1	0.	68.	.2	16.0	10 <sup>e</sup> PERCNT
25TH		.4	1.8	22.0	7.1	0.	77.	.3	24.	25 <sup>e</sup>
MEDIAN 50TH		.5	2.9	32.	11.6	0.	104.	.5	40.0	50 <sup>e</sup> MEDIANE
75TH		.6	3.8	40	14.7	0.	118.	.6	57.0	75 <sup>e</sup>
90TH		.8	4.3	43.0	15.8	0.	123.	.8	67.	90 <sup>e</sup>
SECONDARY CODE				03L				06L	04L 06L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	C MG/L	O2 MG/L	
SAMPLES(FLAGS)	0417	37(10)	36(0)	23(23)	23(22)	40(16)	27(0)	27(2)	14(0)	ECHANTILLONS(IND.)
LOW	0435	L.1	.03	L.002	L.001	L.003	2.6	L.5	8.8	MINIMUM
HIGH		.6	.680	L.003	.003	.045	5.4	16.0	12.5	MAXIMUM
AVERAGE		.2*	.116		.002*	.008*	3.76	2.3*	11.1	MOYENNE
STD.DEV.		.1*	.132		.001*	.009*	.80	2.9*	1.0	ECART-TYPE
PERCNT:10TH		L.1	.03	L.002	L.001	L.003	2.7	1.	9.9	10 <sup>e</sup> PERCNT
25TH		L.1	.040	L.002	L.001	.003	3.0	1.	10.4	25 <sup>e</sup>
MEDIAN 50TH		.1	.095	L.002	L.001	L.005	3.8	1.	11.1	50 <sup>e</sup> MEDIANE
75TH		.2	.115	L.003	L.003	.010	4.2	2	11.7	75 <sup>e</sup>
90TH		.3	.280	L.003	L.003	.015	5.4	4.0	12.3	90 <sup>e</sup>
SECONDARY CODE		01L		56L	56L	06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0012 LAT. 52 D 27M 0 S LONG. 117 D 26M 30 S

UTM 11 470000E 5811000 N  
OCT 01, 1972 TO/A AUG 11, 1975

POBOKTAN CREEK AT HWY 93, JASPER  
NATIONAL PARK, ALBERTA

	SUBM ID	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS)	0435	8(3)			8(8)	8(6)	15(14)	9(4)		ECHANTILLONS(IND.)
LOW	0417	L.02			L.010	L.01	L.04	L.04		MINIMUM
HIGH		.05			L.015	.09	L.05	2.10		MAXIMUM
AVERAGE		.03*				.02*	.047*	.32*		MOYENNE
STD.DEV.		.01*				.03*	.005*	.67*		ECART-TYPE
PERCNT:10TH							L.04			10 <sup>e</sup> PERCNT
25TH		L.02			L.010	L.01	L.04	L.04		25 <sup>e</sup>
MEDIAN 50TH		.02			L.012	L.01	L.05	.07		50 <sup>e</sup> MEDIANE
75TH		.04			L.015	.01*	L.05	.12		75 <sup>e</sup>
90TH							L.05			90 <sup>e</sup>
SECONDARY CODE							04L	04L		CODE DE SECOURS

	SUBM ID	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	
SAMPLES(FLAGS)	0417		8(4)	8(5)	6(5)	4(4)			8(8)	ECHANTILLONS(IND.)
LOW			L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH			.009	.015	L.005	L.0005			L.01	MAXIMUM
AVERAGE			.003*	.004*	.0013*					MOYENNE
STD.DEV.			.004*	.005*	.0018*					ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			L.001	L.001	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH			.001*	.001*	L.0005	L.0005			L.01	50 <sup>e</sup> MEDIANE
75TH			.006	.006*	.0006	L.0005			L.01	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				04P	03L					CODE DE SECOURS

	SUBM ID	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	80311P MERCURY EXTRBLE. HG UG/L	81301P THALLIUM EXTRBLE. TL MG/L	82302P LEAD EXTRBLE. PB MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06604P CYANIDE DISSOLVED CN MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0417	8(5)	8(7)	8(7)		8(6)			27(12)	ECHANTILLONS(IND.)
LOW	0435	L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH		.002	.1	.14		.004			.08	MAXIMUM
AVERAGE		.001*	.1*	.06*		.002*			.06*	MOYENNE
STD.DEV.		.000*	.0*	.03*		.002*			.01*	ECART-TYPE
PERCNT:10TH									L.05	10 <sup>e</sup> PERCNT
25TH		L.001	L.0	L.05		L.001			L.05	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.1	L.05		L.002			.05	50 <sup>e</sup> MEDIANE
75TH		.001	L.1	L.05		.004*			.07	75 <sup>e</sup>
90TH									.08	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

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## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0012 LAT. 52 D 27M 0 S LONG. 117 D 26M 30 S

UTM 11 470000E 5811000 N  
JUN 12 1973 TO/A OCT 21 1976POBOKTAN CREEK AT HWY 93 JASPER  
NATIONAL PARK ALBERTA

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT DENS	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	NO/ML	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	25(6)	25(16)	25(15)	16(7)	9(9)	1(0)	9(9)	9(9)	ECHANTILLONS(IND.)
LOW	L1.	L1.	L1.	15.	L.001	.004	L.001	L.002	MINIMUM
HIGH	G120.	81.	23.	1730.	L.001	.004	L.001	L.002	MAXIMUM
AVERAGE	13.*	5.*	3.*	219.*					MOYENNE
STD.DEV.	24.*	16.*	6.*	430.*					ECART-TYPE
PERCNT:10TH	L1.	L1.	L1.	L30.					10 <sup>e</sup> PERCNT
25TH	1.	L1.	L1.	L30.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	5.	L1.	L1.	37.	L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	15.	1.	1.	220.	L.001		L.001	L.002	75 <sup>e</sup>
90TH	26.	9.	3.	500.					90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	8(8)	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	ECHANTILLONS(IND.)
LOW	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1260 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	8(8)	9(9)	8(8)	8(8)	8(8)	9(8)	9(8)	9(9)	ECHANTILLONS(IND.)
LOW	L.2	L.01	L.004	L.002	L.009	.016	L.02	L.055	MINIMUM
HIGH	L.2	L.012	L.004	L.002	L.01	L.032	.076	L.06	MAXIMUM
AVERAGE						.030*	.029*		MOYENNE
STD.DEV.						.005*	.018*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0013** LAT. **52 D 31M 57 S** LONG. **117 D 38M 33 S**

UTM **11 456400E 5820200 N**  
AUG 30, 1972 TO/A OCT 21, 1976

SUNWAPTA RIVER ABOVE SUNWAPTA FALLS,  
JASPER NATIONAL PARK, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>43(0)</b>	<b>28(0)</b>	<b>24(0)</b>	<b>43(18)</b>	<b>43(0)</b>	<b>42(0)</b>	<b>28(0)</b>	<b>28(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>130.</b>	<b>73.</b>	<b>71.4</b>	<b>L5.</b>	<b>.2</b>	<b>7.7</b>	<b>56.8</b>	<b>-.6</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>308.</b>	<b>167.</b>	<b>159.</b>	<b>100.</b>	<b>150.</b>	<b>8.3</b>	<b>102.</b>	<b>.2</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>201.</b>	<b>120.</b>	<b>113.8</b>	<b>10.*</b>	<b>31.0</b>		<b>81.2</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>54.</b>	<b>33.</b>	<b>30.7</b>	<b>16.*</b>	<b>40.0</b>		<b>15.0</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>136.</b>	<b>74.</b>	<b>73.0</b>	<b>L5.</b>	<b>1.3</b>	<b>7.9</b>	<b>61.8</b>	<b>-.3</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>147.</b>	<b>85.</b>	<b>79.0</b>	<b>L5.</b>	<b>2.5</b>	<b>8.0</b>	<b>66.6</b>	<b>-.1</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>198.</b>	<b>125.</b>	<b>118.5</b>	<b>5.</b>	<b>9.0</b>	<b>8.1</b>	<b>80.9</b>	<b>.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>239.</b>	<b>151.</b>	<b>139.5</b>	<b>10.</b>	<b>45.</b>	<b>8.2</b>	<b>95.5</b>	<b>.1</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>282.</b>	<b>165.</b>	<b>152.</b>	<b>20.</b>	<b>100.</b>	<b>8.2</b>	<b>100.</b>	<b>.2</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>28(0)</b>	<b>28(0)</b>	<b>28(0)</b>	<b>24(0)</b>	<b>28(0)</b>	<b>28(0)</b>	<b>28(0)</b>	<b>28(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.1</b>	<b>.4</b>	<b>19.0</b>	<b>4.0</b>	<b>0.</b>	<b>69.</b>	<b>.1</b>	<b>7.9</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.9</b>	<b>1.8</b>	<b>43.</b>	<b>14.8</b>	<b>0.</b>	<b>124.</b>	<b>1.3</b>	<b>51.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.4</b>	<b>1.2</b>	<b>30.17</b>	<b>9.1</b>	<b>0.</b>	<b>99.</b>	<b>.5</b>	<b>29.6</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.1</b>	<b>.4</b>	<b>7.40</b>	<b>3.2</b>	<b>0.</b>	<b>18.</b>	<b>.3</b>	<b>14.4</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.3</b>	<b>.6</b>	<b>20.6</b>	<b>4.7</b>	<b>0.</b>	<b>75.</b>	<b>.2</b>	<b>11.5</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.3</b>	<b>.7</b>	<b>23.50</b>	<b>6.4</b>	<b>0.</b>	<b>81.</b>	<b>.4</b>	<b>15.8</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.4</b>	<b>1.2</b>	<b>31.45</b>	<b>9.6</b>	<b>0.</b>	<b>99.</b>	<b>.5</b>	<b>30.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.5</b>	<b>1.5</b>	<b>36.00</b>	<b>11.8</b>	<b>0.</b>	<b>116.</b>	<b>.6</b>	<b>43.9</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.6</b>	<b>1.6</b>	<b>40.0</b>	<b>12.7</b>	<b>0.</b>	<b>122.</b>	<b>.9</b>	<b>48.9</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										03L 06L 06L 01L 04L CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15255L PHOSPHORUS ORTHOPHOSPHATE P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>41(12)</b>	<b>37(0)</b>	<b>24(23)</b>	<b>24(23)</b>	<b>43(19)</b>	<b>27(0)</b>	<b>26(5)</b>	<b>14(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.1</b>	<b>.040</b>	<b>L.002</b>	<b>L.001</b>	<b>L.003</b>	<b>1.9</b>	<b>L.5</b>	<b>9.0</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.4</b>	<b>1.90</b>	<b>.007</b>	<b>.007</b>	<b>.057</b>	<b>5.3</b>	<b>5.0</b>	<b>13.1</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.2*</b>	<b>.179</b>	<b>.003*</b>	<b>.002*</b>	<b>.013*</b>	<b>3.60</b>	<b>2.1*</b>	<b>11.2</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.1*</b>	<b>.321</b>	<b>.001*</b>	<b>.001*</b>	<b>.015*</b>	<b>.86</b>	<b>1.3*</b>	<b>1.2</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.1</b>	<b>.050</b>	<b>L.002</b>	<b>L.001</b>	<b>L.003</b>	<b>2.3</b>	<b>L0.</b>	<b>9.8</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.1</b>	<b>.06</b>	<b>L.002</b>	<b>L.001</b>	<b>L.003</b>	<b>2.8</b>	<b>1.</b>	<b>10.2</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.1</b>	<b>.08</b>	<b>L.002</b>	<b>L.001</b>	<b>.005</b>	<b>3.8</b>	<b>2.0</b>	<b>11.6</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.2</b>	<b>.13</b>	<b>L.003</b>	<b>L.003</b>	<b>.018</b>	<b>4.2</b>	<b>3.0</b>	<b>12.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.3</b>	<b>.420</b>	<b>L.003</b>	<b>L.003</b>	<b>.040</b>	<b>4.6</b>	<b>4.0</b>	<b>12.6</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										01L 56L 56L 06L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0013 LAT 52 D 31 M 57 S LONG. 117 D 38 M 33 S

UTM 11 456400E 5820200 N  
JUN 29 1971 TO/A AUG 12 1975SUNWAPTA RIVER ABOVE SUNWAPTA FALLS  
JASPER NATIONAL PARK ALBERTA

		05105L BORON DISSOLVED	13302P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS)	0417	7(3)	2(0)	2(2)	11(11)	11(5)	16(14)	11(3)	3(3)	ECHANTILLONS(IND.)
LOW	0003	L.02	.44	L.05	L.010	L.01	L.001	L.04	L.01	MINIMUM
HIGH		.04	2.5	L.05	L.015	.08	.08	2.60	L.01	MAXIMUM
AVERAGE		.03*	1.470			.03*	.044*	.70*		MOYENNE
STD.DEV.		.01*	1.457			.03*	.017*	.83*		ECART-TYPE
PERCNT:10TH					L.010	L.01	.020	L.04		10 <sup>e</sup> PERCNT
25TH		L.02			L.010	L.01	L.040	.04		25 <sup>e</sup>
MEDIAN 50TH		.02	1.470	L.0500	L.010	.01	L.050	.41	L.01	50 <sup>e</sup> MEDIANE
75TH		.04			L.015	.05	L.050	1.30		75 <sup>e</sup>
90TH					L.015	.08	L.05	1.40		90 <sup>e</sup>
SECONDARY CODE				01P			04L	04L	01P	CODE DE SECOURS

		28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS)	0417	2(2)	11(5)	11(4)	8(6)	4(4)	2(0)	2(2)	11(11)	ECHANTILLONS(IND.)
LOW	0003	L.01	L.001	L.001	L.0005	L.0005	.20	L.05	L.00	MINIMUM
HIGH		L.01	.004	L.01	.014	L.0005	.22	L.05	L.01	MAXIMUM
AVERAGE		.002*	.002*	.003*	.0042*		.21			MOYENNE
STD.DEV.		.001*	.001*	.003*	.0057*		.01			ECART-TYPE
PERCNT:10TH			L.001	L.001					L.00	10 <sup>e</sup> PERCNT
25TH			L.001	L.001	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH		L.010	.001	.002	L.0005	L.0005	.21	L.05	L.01	50 <sup>e</sup> MEDIANE
75TH			.003	.006	.0085*	L.0005			L.01	75 <sup>e</sup>
90TH			.004	.006					L.01	90 <sup>e</sup>
SECONDARY CODE		01P		04P	03L					CODE DE SECOURS

		48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	06535P PHENOLIC MATERIAL PHENOL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
	SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS)	0417	11(8)	11(10)	8(8)	2(2)	11(11)			28(10)	ECHANTILLONS(IND.)
LOW	0003	L.001	L.0	L.05	L.2	L.001			L.05	MINIMUM
HIGH		L.01	L.1	L.05	L.2	L.004			.09	MAXIMUM
AVERAGE		.003*	.1*						.06*	MOYENNE
STD.DEV.		.004*	.0*						.01*	ECART-TYPE
PERCNT:10TH		L.001	L.0			L.001			L.05	10 <sup>e</sup> PERCNT
25TH		L.001	.1	L.05		L.001			L.05	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.1	L.05	L.20	L.001			.05	50 <sup>e</sup> MEDIANE
75TH		.002	L.1	L.05		L.004			.07	75 <sup>e</sup>
90TH		L.01	L.1			L.004			.09	90 <sup>e</sup>
SECONDARY CODE		01P								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0013** LAT. **52 D 31 M 57 S** LONG. **117 D 38 M 33 S**UTM **11 456400E 5820200 N**  
AUG 30, 1972 TO/A OCT 21, 1976SUNWAPTA RIVER ABOVE SUNWAPTA FALLS,  
JASPER NATIONAL PARK, ALBERTA

		36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT.DENS.	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
	SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	NO/ML	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>25(6)</b>	<b>25(5)</b>	<b>25(5)</b>	<b>15(5)</b>	<b>9(9)</b>	<b>1(0)</b>	<b>9(8)</b>	<b>9(9)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>L30.</b>	<b>L.001</b>	<b>.002</b>	<b>L.001</b>	<b>L.002</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>G1200.</b>	<b>62.</b>	<b>30.</b>	<b>1000.</b>	<b>L.001</b>	<b>.002</b>	<b>.001</b>	<b>L.002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>247.*</b>	<b>12.*</b>	<b>9.*</b>	<b>205.*</b>			<b>.001*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>316.*</b>	<b>16.*</b>	<b>8.*</b>	<b>288.*</b>			<b>.000*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>L30.</b>					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>11.</b>	<b>1.</b>	<b>1.</b>	<b>L30.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>G120.</b>	<b>5.</b>	<b>7.</b>	<b>83.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>310.</b>	<b>17.</b>	<b>15.</b>	<b>280.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>770.</b>	<b>34.</b>	<b>17.</b>	<b>720.</b>					<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.002</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCLO 1254 (PCB'S)	18161L AROCLO 1248 (PCB'S)	18162L AROCLO 1260 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>8(8)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>9(9)</b>	<b>8(8)</b>	<b>8(8)</b>	<b>8(8)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.2</b>	<b>L.01</b>	<b>L.004</b>	<b>L.001</b>	<b>L.006</b>	<b>L.03</b>	<b>L.02</b>	<b>L.032</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.2</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.06</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.200</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.200</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.200</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0014 LAT. 52 D 35M 3 S LONG 117 D 44M 21 S

UTM 11 449900 5826100

JUL 03 1972 TO A JAN 21 1976

ATHABASCA RIVER ABOUT 4.5 MILES  
BELOW CONFLUENCE WITH SUNWAPTA RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	MG/L	PH UNITS	
SAMPLES(FLAGS)	0417	26(0)	25(0)	22(0)	26(18)	26(0)	26(0)	25(0)	ECHANTILLONS(IND.)
LOW	0435	125.	65.	66.0	L5.	7.7	57.0	-5	MINIMUM
HIGH		267.	140.	138.	50.	118.	135.	.3	MAXIMUM
AVERAGE		191.	102.	102.1	8.	17.8	84.4		MOYENNE
STD.DEV.		42.	22.	22.8	10.	32.9	21.2		ECART-TYPE
PERCNT:10TH		133.	72.	71.0	L5.	7	61.0	-3	10 <sup>e</sup> PERCNT
25TH		158.	82.	84.0	L5.	1.0	69.0	-2	25 <sup>e</sup>
MEDIAN 50TH		190.	103.	100.0	L5.	3.5	79.0	-1	50 <sup>e</sup> MEDIANE
75TH		216.	117.	117.	5.	8.1	89.9	.0	75 <sup>e</sup>
90TH		257.	134.	135.	20.	55.	118.	.2	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONAT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0417	25(0)	25(0)	26(0)	22(0)	26(0)	25(0)	26(0)	ECHANTILLONS(IND.)
LOW	0435	.2	.3	20.0	2.8	0.	69.	.1	MINIMUM
HIGH		3.2	1.3	39.0	10.8	0.	165.	3.0	MAXIMUM
AVERAGE		.5	.7	27.82	7.7	0.	103.	.5	MOYENNE
STD.DEV.		.6	.3	5.87	2.3	0.	26.	.6	ECART-TYPE
PERCNT:10TH		.3	.3	22.0	4.5	0.	74.	.2	10 <sup>e</sup> PERCNT
25TH		.3	.4	23.0	5.8	0.	84.	.2	25 <sup>e</sup>
MEDIAN 50TH		.3	.7	25.85	7.7	0.	96.	.4	50 <sup>e</sup> MEDIANE
75TH		.4	.9	32.	9.5	0.	110.	.6	75 <sup>e</sup>
90TH		.6	1.0	38.0	10.3	0.	144.	.7	90 <sup>e</sup>
SECONDARY CODE			03L				06L	06L 04L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	08101P OXYGEN DISSOLVED DO O2	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0417	21(9)	25(0)	21(21)	21(19)	25(17)	25(0)	26(9)	ECHANTILLONS(IND.)
LOW	0435	.1	.030	L.002	L.001	L.003	1.7	L.5	9.0
HIGH		.4	.490	L.003	.003	.085	5.0	5.0	12.5
AVERAGE		.2*	.129		.002*	.013*	3.51	1.9*	11.1
STD.DEV.		.1*	.107		.001*	.021*	.83	1.3*	1.1
PERCNT:10TH		L.1	.060	L.002	L.001	L.003	2.4	L.5	10.0
25TH		L.1	.08	L.002	L.001	L.003	3.0	L.0	10.3
MEDIAN 50TH		.1	.100	L.002	L.001	L.005	3.7	1.0	11.1
75TH		.2	.12	L.003	L.003	L.005	4.0	3.0	12.1
90TH		.3	.200	L.003	L.003	.045	4.4	4.0	12.5
SECONDARY CODE		01L		56L	56L	06L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0014** LAT. **52 D 35M 3 S** LONG. **117 D 44M 21 S**UTM **11 449900E 5826100 N**  
JUL 03, 1972 TO/A AUG 12, 1975ATHABASCA RIVER ABOUT 4.5 MILES  
BELOW CONFLUENCE WITH SUNWAPTA RIVER.

	SUBM ID	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBL. AL MG/L	23302P VANADIUM EXTRBL. V MG/L	24302P CHROMIUM EXTRBL. CR MG/L	25304P MANGANESE EXTRBL. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBL. FE MG/L	27302P COBALT EXTRBL. CO MG/L	
<b>SAMPLES(FLAGS)</b>	0417	9(4)			8(8)	8(6)	14(13)	9(6)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0435	<b>L.02</b>			<b>L.010</b>	<b>L.00</b>	<b>.020</b>	<b>L.04</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.07</b>			<b>L.015</b>	<b>.09</b>	<b>L.05</b>	<b>2.50</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.03*</b>				<b>.02*</b>	<b>.045*</b>	<b>.50*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.02*</b>				<b>.03*</b>	<b>.009*</b>	<b>.83*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>							<b>L.04</b>			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.02</b>			<b>L.010</b>	<b>L.01</b>	<b>L.04</b>	<b>L.04</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.02</b>			<b>L.010</b>	<b>L.01</b>	<b>L.050</b>	<b>L.05</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.02</b>			<b>L.015</b>	<b>.03*</b>	<b>L.05</b>	<b>.77</b>		<b>75<sup>e</sup></b>
<b>90TH</b>							<b>L.05</b>			<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>							<b>04L</b>	<b>04L</b>		<b>CODE DE SECOURS</b>

	SUBM ID	28302P NICKEL EXTRBL. NI MG/L	29305P COPPER EXTRBL. CU MG/L	30305P ZINC EXTRBL. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	38301P STRONTIUM EXTRBL. SR MG/L	42301P MOLYBDENUM EXTRBL. MO MG/L	47301P SILVER EXTRBL. AG MG/L	
<b>SAMPLES(FLAGS)</b>	0417		8(5)	8(2)	6(5)	4(4)			8(8)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>L.0005</b>			<b>L.00</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>.004</b>	<b>.012</b>	<b>L.005</b>	<b>L.0005</b>			<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.002*</b>	<b>.004*</b>	<b>.0015*</b>					<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.001*</b>	<b>.004*</b>	<b>.0018*</b>					<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>L.001</b>	<b>.002</b>	<b>L.0005</b>	<b>L.0005</b>			<b>L.00</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>L.001</b>	<b>.003</b>	<b>L.0005</b>	<b>L.0005</b>			<b>L.01</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>.003</b>	<b>.006*</b>	<b>.0018</b>	<b>L.0005</b>			<b>L.01</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>				<b>04P</b>	<b>03L</b>					<b>CODE DE SECOURS</b>

	SUBM ID	48302P CADMIUM EXTRBL. CD MG/L	56301P BARIUM EXTRBL. BA MG/L	80311P MERCURY EXTRBL. HG UG/L	81301P THALLIUM EXTRBL. TL MG/L	82302P LEAD EXTRBL. PB MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06604P CYANIDE DISSOLVED CN MG/L	09105L FLUORIDE DISSOLVED F MG/L	
<b>SAMPLES(FLAGS)</b>	0417		8(4)	8(8)	8(8)	8(6)			26(16)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0435	<b>L.001</b>	<b>L.0</b>	<b>L.05</b>		<b>L.001</b>			<b>L.05</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.003</b>	<b>L.1</b>	<b>L.05</b>		<b>.035</b>			<b>.07</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.001*</b>				<b>.006*</b>			<b>.05*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.001*</b>				<b>.012*</b>			<b>.01*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>L.05</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.001</b>	<b>L.0</b>	<b>L.05</b>		<b>L.001</b>			<b>L.05</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.001*</b>	<b>L.1</b>	<b>L.05</b>		<b>L.002</b>			<b>L.05</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.002</b>	<b>L.1</b>	<b>L.05</b>		<b>.004*</b>			<b>.06</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>.07</b>	<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0014 LAT 52 D 35 M 3 S LONG 117 D 44 M 21 S

UTM 11 449900E 5826100 N  
JUN 14, 1973 TO/A JAN 21, 1976ATHABASCA RIVER ABOUT 4.5 MILES  
BELOW CONFLUENCE WITH SUNWAPTA RIVER

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT DENS	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	NO/ML	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417				15(8)	9(9)	1(0)	9(9)	9(9)	ECHANTILLONS(IND.)
LOW				25.	L.001	.004	L.001	L.002	MINIMUM
HIGH				500.	L.001	.004	L.001	L.002	MAXIMUM
AVERAGE				94.*					MOYENNE
STD.DEV.				129.*					ECART-TYPE
PERCNT:10TH				L30.					10 <sup>e</sup> PERCNT
25TH				L30.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH				L30.	L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH				140.	L.001		L.001	L.002	75 <sup>e</sup>
90TH				210.					90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	ECHANTILLONS(IND.)
LOW	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1280 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	9(9)	9(9)	9(9)	9(9)	9(9)	9(8)	9(8)	9(9)	ECHANTILLONS(IND.)
LOW	L.2	L.002	L.004	L.002	L.009	.019	L.02	L.055	MINIMUM
HIGH	L.2	L.012	L.004	L.002	L.009	.032	.075	L.06	MAXIMUM
AVERAGE						.030*	.029*		MOYENNE
STD.DEV.						.004*	.017*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0015 LAT. 52 D 39 M 54 S LONG. 117 D 52 M 51 S

UTM 11 440400E 5835100 N

AUG 31, 1972 TO/A DEC 03, 1979

ATHABASCA RIVER AT HWY 93A,  
ATHABASCA FALLS.

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0003	60(0)	60(1)	30(0)	61(32)	61(0)	60(0)	45(0)	60(1)	ECHANTILLONS(IND.)
LOW	0417	128.	68.	68.	L5.	.2	7.1	44.	-1.3	MINIMUM
HIGH		330.	197.	192.	60.	250.	8.4	171.	.6	MAXIMUM
AVERAGE		189.	100.*	101.9	11.*	28.8		79.6		MOYENNE
STD.DEV.		45.	26.*	29.8	13.*	51.3		22.9		ECART-TYPE
PERCNT:10TH		134.	71.	70.1	L5.	1.2	7.9	61.0	-.4	10 <sup>e</sup> PERCNT
25TH		147.	76.	76.0	L5.	1.9	8.0	66.0	-.3	25 <sup>e</sup>
MEDIAN 50TH		190.	99.	101.5	L5.	4.7	8.1	76.3	-.1	50 <sup>e</sup> MEDIANE
75TH		220.	112.	113.	10.	40.0	8.1	88.5	.0	75 <sup>e</sup>
90TH		231.	121.	115.5	30.	81.0	8.3	90.7	.2	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0417	61(1)	61(0)	61(0)	30(0)	58(0)	58(0)	61(0)	61(0)	ECHANTILLONS(IND.)
LOW	0003	L.1	.1	19.0	1.4	0.	54.	.1	6.	MINIMUM
HIGH		14.	1.4	58.	15.7	0.	208.	1.3	46.	MAXIMUM
AVERAGE		.6*	.7	27.19	7.3	0.	96.	.4	16.0	MOYENNE
STD.DEV.		1.8*	.3	6.95	2.9	0.	26.	.2	6.8	ECART-TYPE
PERCNT:10TH		.2	.3	20.2	3.5	0.	74.	.2	7.2	10 <sup>e</sup> PERCNT
25TH		.2	.5	22.0	5.7	0.	81.	.2	10.	25 <sup>e</sup>
MEDIAN 50TH		.3	.8	26.1	7.6	0.	93.	.3	16.0	50 <sup>e</sup> MEDIANE
75TH		.4	.9	29.9	8.8	0.	105.	.4	20.5	75 <sup>e</sup>
90TH		.6	1.0	32.3	10.2	0.	111.	.6	22.	90 <sup>e</sup>
SECONDARY CODE										03L 06L 06L 04L 01L CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	08101P OXYGEN DISSOLVED DO O2	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0417	36(9)	34(0)	30(30)	30(28)	61(26)	60(0)	39(7)	38(0)	ECHANTILLONS(IND.)
LOW	0003	L.1	.040	L.002	L.001	L.003	1.2	L.5	9.2	MINIMUM
HIGH		.6	1.20	L.003	.003	.16	8.8	10.0	14.9	MAXIMUM
AVERAGE		.2*	.185		.002*	.018*	3.73	2.1*	11.4	MOYENNE
STD.DEV.		.1*	.234		.001*	.032*	1.47	1.8*	1.2	ECART-TYPE
PERCNT:10TH		L.1	.05	L.002	L.001	L.003	2.00	L.5	9.9	10 <sup>e</sup> PERCNT
25TH		.1*	.090	L.002	L.001	.003	2.70	1.0	10.7	25 <sup>e</sup>
MEDIAN 50TH		.2	.110	L.002	L.001	L.005	3.80	2.	11.4	50 <sup>e</sup> MEDIANE
75TH		.2	.17	L.003	L.003	.018	4.25	2.	12.1	75 <sup>e</sup>
90TH		.3	.320	L.003	L.003	.053	4.80	5.	12.8	90 <sup>e</sup>
SECONDARY CODE										01L 56L 56L 06L 05L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0015 LAT 52 D 39 M 54 S LONG. 117 D 52 M 51 S

UTM 11 440400E 5835100N  
AUG 31 1972 TO A APR 17 1978ATHABASCA RIVER AT HWY 93A  
ATHABASCA FALLS

		05105L BORON DISSOLVED	13302P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS)	0417	16(6)	6(0)	7(7)	16(16)	16(6)	20(17)	18(6)	7(5)	ECHANTILLONS(IND.)
LOW	0003	L.02	.028	L.001	L.010	L.01	L.001	L.04	L.002	MINIMUM
HIGH		.07	.9	L.001	L.015	.94	L.05	2.60	.004	MAXIMUM
AVERAGE		.03*	.339			.10*	.039*	.56*	.002*	MOYENNE
STD.DEV.		.02*	.407			.23*	.018*	.73*	.001*	ECART-TYPE
PERCNT:10TH		L.02			L.010	L.01	.005*	L.04		10 <sup>e</sup> PERCNT
25TH		L.02	.038	L.001	L.010	L.01	L.040	.04	L.002	25 <sup>e</sup>
MEDIAN 50TH		.02	.130	L.001	L.015	.03	L.050	.19	L.002	50 <sup>e</sup> MEDIANE
75TH		.04	.81	L.001	L.015	.07	L.050	.75	.002	75 <sup>e</sup>
90TH		.05			L.015	.17	L.050	1.70		90 <sup>e</sup>
SECONDARY CODE			05P				04L	04L		CODE DE SECOURS

		28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS)	0003	6(4)	17(12)	17(8)	14(14)	11(11)	6(0)	1(1)	10(10)	ECHANTILLONS(IND.)
LOW	0417	L.002	L.001	L.001	L.0005	L.0005	.16	L.10	L.00	MINIMUM
HIGH		.005	.007	L.01	L.005	L.0005	.30	L.10	L.01	MAXIMUM
AVERAGE		.003*	.002*	.003*			.22			MOYENNE
STD.DEV.		.002*	.002*	.002*			.05			ECART-TYPE
PERCNT:10TH			L.001	L.001	L.0005	L.0005			L.00	10 <sup>e</sup> PERCNT
25TH		L.002	L.001	L.001	L.0005	L.0005	.18		L.00	25 <sup>e</sup>
MEDIAN 50TH		L.002	L.001	.001	L.0005	L.0005	.22		L.01	50 <sup>e</sup> MEDIANE
75TH		.005	.001	.004	L.0005	L.0005	.25		L.01	75 <sup>e</sup>
90TH			.004	.005	L.005	L.0005			L.01	90 <sup>e</sup>
SECONDARY CODE				04P	03L					CODE DE SECOURS

		48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	06535P PHENOLIC MATERIAL PHENOL	06604P CYANIDE DISSOLVED	09135L FLUORIDE DISSOLVED	
	SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS)	0417	17(13)	17(16)	28(27)		17(15)	6(2)	7(4)	61(21)	ECHANTILLONS(IND.)
LOW	0003	L.001	L.0	L.02		L.001	L.001	.003	L.05	MINIMUM
HIGH		.003	L.1	.34		.005	.008	.011	.09	MAXIMUM
AVERAGE		.001*	.1*	.04*		.003*	.003*	.006*	.06*	MOYENNE
STD.DEV.		.000*	.0*	.06*		.002*	.003*	.003*	.01*	ECART-TYPE
PERCNT:10TH		L.001	L.0	L.02		L.001			L.05	10 <sup>e</sup> PERCNT
25TH		L.001	L.0	L.02		L.001	L.001	L.005	L.05	25 <sup>e</sup>
MEDIAN 50TH		L.001	.1	L.02		L.004	.002	L.005	.05	50 <sup>e</sup> MEDIANE
75TH		L.001	L.1	L.05		L.004	.002	.005	.06	75 <sup>e</sup>
90TH		.001	L.1	L.05		.004			.07	90 <sup>e</sup>
SECONDARY CODE				13P						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0015 LAT. 52 D 39 M 54 S LONG. 117 D 52 M 51 S

UTM 11 440400E 5835100 N  
AUG 31, 1972 TO/A DEC 03, 1979ATHABASCA RIVER AT HWY 93A,  
ATHABASCA FALLS.

		36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT.DENS. NO/ML	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
	SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL		UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0417	9(3)	9(4)	9(3)	15(5)	12(12)	4(1)	13(13)	12(12)	ECHANTILLONS(IND.)
LOW	0003	1.	L1.	1.	15.	L.001	L.001	L.001	L.002	MINIMUM
HIGH		200.	20.	36.	780.	L.001	.006	L.001	L.002	MAXIMUM
AVERAGE		34.*	4.*	8.*	156.*		.003*			MOYENNE
STD.DEV.		65.*	6.*	11.*	203.*		.002*			ECART-TYPE
PERCNT:10TH					20.	L.001		L.001	L.002	10 <sup>e</sup> PERCNT
25TH		L2.	L2.	L2.	L30.	L.001	.001*	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH		3.	L2.	2.	80.	L.001	.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH		20.	3.	10.	200.	L.001	.005	L.001	L.002	75 <sup>e</sup>
90TH					400.	L.001		L.001	L.002	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0417	10(10)	12(12)	12(12)	12(12)	12(12)	12(12)	12(12)	12(11)	ECHANTILLONS(IND.)
LOW		L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.000	MINIMUM
HIGH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	.002	MAXIMUM
AVERAGE									.002*	MOYENNE
STD.DEV.									.001*	ECART-TYPE
PERCNT:10TH		L.003	L.004	L.002	L.001	L.001	L.003	L.001	L.002	10 <sup>e</sup> PERCNT
25TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOLOR 1254 (PCB'S)	18161L AROCOLOR 1248 (PCB'S)	18162L AROCOLOR 1260 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0417	11(11)	12(12)	10(9)	10(10)	10(10)	14(13)	14(13)	12(12)	ECHANTILLONS(IND.)
LOW	0003	L.1	L.002	L.004	L.001	L.006	L.002	L.002	L.005	MINIMUM
HIGH		L.2	L.012	.004	L.002	L.009	L.032	.079	L.06	MAXIMUM
AVERAGE				.004*			.028*	.025*		MOYENNE
STD.DEV.				.000*			.010*	.016*		ECART-TYPE
PERCNT:10TH		L.2	L.01	L.004	L.002	L.007	.009	L.02	L.055	10 <sup>e</sup> PERCNT
25TH		L.2	L.011	L.004	L.002	L.009	L.03	L.02	L.055	25 <sup>e</sup>
MEDIAN 50TH		L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH		L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.057	75 <sup>e</sup>
90TH		L.2	L.012	.004*	L.002	L.009	L.032	L.024	L.06	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0016 LAT 52 D 43 M 21 S LONG. 117 D 55 M 27 S

UTM 11 437600E 5841600 N  
AUG 31 1972 TO: A JAN 21 1976WHIRLPOOL RIVER AT HWY 93A JASPER  
NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00710L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CAC03 MG/L	PH UNITS	
SAMPLES(FLAGS)	0417	29(0)	28(3)	25(0)	29(16)	29(0)	29(0)	28(3)	ECHANTILLONS(IND.)
LOW		102.	Q58.	51.0	L5.	.2	7.8	46.4	MINIMUM
HIGH		210.	109.	110.	35.	60.0	8.3	92.7	MAXIMUM
AVERAGE		159.	84.*	84.0	8.*	11.0		70.2	MOYENNE
STD.DEV.		36.	18.*	17.9	7.*	15.0		14.3	ECART-TYPE
PERCNT:10TH		108.	Q60.	57.7	L5.	.8	7.8	52.0	10 <sup>th</sup> PERCNT
25TH		128.	65.	69.0	L5.	1.3	7.9	59.0	25 <sup>th</sup>
MEDIAN 50TH		164.	88.	88.4	L5.	3.5	8.0	68.3	50 <sup>th</sup> MEDIANE
75TH		192.	100.	100.	5.	14.0	8.1	85.1	75 <sup>th</sup>
90TH		207.	105.	103.	20.	37.0	8.2	90.0	90 <sup>th</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0417	28(0)	28(0)	29(0)	25(0)	29(0)	29(0)	28(3)	29(0)
LOW		.2	.2	17.0	1.2	0.	57.	L1	5.3
HIGH		2.0	1.3	29.6	9.5	0.	113.	1.9	15.0
AVERAGE		.4	.8	23.37	6.1	0.	86.	.5*	10.4
STD.DEV.		.4	.3	3.98	2.2	0.	17.	.4*	3.1
PERCNT:10TH		.2	.3	18.0	3.5	0.	63.	L1	5.4
25TH		.2	.6	20.0	4.4	0.	72.	.2	8.1
MEDIAN 50TH		.3	.8	23.0	6.6	0.	83.	.3	10.9
75TH		.3	1.0	27.0	7.4	0.	104.	.6	13.
90TH		.5	1.1	29.	8.8	0.	110.	1.0	14.0
SECONDARY CODE				03L			06L	06L 04L 01L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHOPHOSPHATE	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	O2 MG/L	
SAMPLES(FLAGS)	0417	25(5)	29(0)	25(23)	25(21)	28(18)	28(0)	29(3)	12(0)
LOW		L1	.010	L.002	L.001	L.003	1.8	L5	8.0
HIGH		.4	2.00	.540	.540	.028	4.3	5.0	12.7
AVERAGE		.2*	.182	.024*	.024*	.007*	3.19	2.1*	10.9
STD.DEV.		.1*	.359	.108*	.108*	.007*	.74	1.4*	1.6
PERCNT:10TH		L.1	.030	L.002	L.001	L.003	1.8	L0.	8.4
25TH		.1	.070	L.002	L.001	.004	2.70	1.0	10.0
MEDIAN 50TH		.2	.10	L.002	L.001	L.005	3.50	2.0	11.3
75TH		.3	.15	L.003	L.003	.005	3.70	3.0	12.3
90TH		.4	.310	L.003	.003	.020	4.0	5.0	12.6
SECONDARY CODE		01L		56L	56L	06L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0016** LAT. **52 D 43M 21 S** LONG. **117 D 55M 27 S**UTM **11 437600 E 5841600 N**  
AUG 31, 1972 TO/A AUG 12, 1975WHIRLPOOL RIVER AT HWY 93A, JASPER  
NATIONAL PARK, ALBERTA

		05105L BORON DISSOLVED	13302P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS)	0417	7(3)			8(8)	8(4)	18(12)	8(2)		ECHANTILLONS(IND.)
LOW		L.02			L.010	L.01	L.001	L.04		MINIMUM
HIGH		.03			L.015	.03	.17	1.50		MAXIMUM
AVERAGE		.02*				.02*	.054*	.37*		MOYENNE
STD.DEV.		.01*				.01*	.032*	.50*		ECART-TYPE
PERCNT:10TH							.030			10 <sup>e</sup> PERCNT
25TH		L.02			L.010	L.01	L.05	.05*		25 <sup>e</sup>
MEDIAN 50TH		.02			L.010	.01*	L.050	.17		50 <sup>e</sup> MEDIANE
75TH		.03			L.015	.02	.050	.48		75 <sup>e</sup>
90TH							.07			90 <sup>e</sup>
SECONDARY CODE							04L	04L		CODE DE SECOURS

		28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS)	0417		6(3)	8(2)	6(6)	4(4)			8(8)	ECHANTILLONS(IND.)
LOW			L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH			.004	.02	L.005	L.0005			L.01	MAXIMUM
AVERAGE			.002*	.005*						MOYENNE
STD.DEV.			.001*	.007*						ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			L.001	.001*	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH			.001*	.002	L.0005	L.0005			L.01	50 <sup>e</sup> MEDIANE
75TH			.002	.005	L.0005	L.0005			L.01	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				04P	03L					CODE DE SECOURS

		48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
	SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PHENOL MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS)	0417	8(7)	8(8)	8(8)		8(8)			28(19)	ECHANTILLONS(IND.)
LOW		L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH		.002	L.1	L.05		L.004			.20	MAXIMUM
AVERAGE		.001*							.06*	MOYENNE
STD.DEV.		.000*							.03*	ECART-TYPE
PERCNT:10TH									L.05	10 <sup>e</sup> PERCNT
25TH		L.001	L.0	L.05		L.001			L.05	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.1	L.05		L.001			L.05	50 <sup>e</sup> MEDIANE
75TH		L.001	L.1	L.05		L.004			.05	75 <sup>e</sup>
90TH									.06	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0016 LAT. 52 D 43M 21 S LONG. 117 D 55M 27 S

UTM 11 437600E 5841600N  
AUG 31 1972 TO/A JAN 21 1976

WHIRLPOOL RIVER AT HWY 93A, JASPER  
NATIONAL PARK, ALBERTA

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT DENS	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	NO/ML	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417				13(7)	9(9)	1(0)	9(8)	9(9)	ECHANTILLONS(IND.)
LOW				7.	L.001	.004	L.001	L.002	MINIMUM
HIGH				320.	L.001	.004	.001	L.002	MAXIMUM
AVERAGE				82.*			.001*		MOYENNE
STD.DEV.				106.*			.000*		ECART-TYPE
PERCNT:10TH				29.					10 <sup>e</sup> PERCNT
25TH				L30.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH				L30.	L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH				L30.	L.001		L.001	L.002	75 <sup>e</sup>
90TH				270.					90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	ECHANTILLONS(IND.)
LOW	L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	8(8)	9(9)	9(9)	9(9)	9(9)	7(7)	7(7)	7(7)	ECHANTILLONS(IND.)
LOW	L.2	L.01	L.004	L.001	L.006	L.03	L.02	L.055	MINIMUM
HIGH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0017** LAT. **52 D 45 M 27 S** LONG. **117 D 58 M 30 S**UTM **11 434200E 5845500 N**  
JUN 13, 1973 TO/A JAN 20, 1976ATHABASCA RIVER AT HWY 93A ABOUT 3.8  
MILES ABOVE MOUTH OF ASTORIA RIVER.

	02041L SPECIFIC CONDUCT.	0203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b> 0417	25(0)	25(0)	21(0)	24(13)	25(0)	25(0)	25(0)	25(0)	<b>ECHANTILLONS(IND.)</b>
LOW	121.	68.	69.0	L5.	.5	7.4	58.0	-.8	MINIMUM
HIGH	219.	116.	115.	40.	220.	8.3	92.0	.0	MAXIMUM
AVERAGE	170.	92.	91.4	9.*	28.3		73.0		MOYENNE
STD.DEV.	31.	17.	16.5	9.*	50.4		11.6		ECART-TYPE
PERCNT:10TH	123.	69.	70.0	L5.	.9	7.8	59.0	-.5	10 <sup>e</sup> PERCNT
25TH	139.	76.	73.0	L5.	2.1	7.9	63.0	-.3	25 <sup>e</sup>
MEDIAN 50TH	172.	96.	92.	L5.	4.5	8.0	71.	-.2	50 <sup>e</sup> MEDIANE
75TH	196.	106.	105.	8.	31.0	8.1	83.0	-.1	75 <sup>e</sup>
90TH	208.	114.	111.	20.	93.0	8.2	88.0	.0	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0417	25(0)	25(0)	25(0)	21(0)	25(0)	25(0)	25(0)	25(0)	<b>ECHANTILLONS(IND.)</b>
LOW	.2	.2	19.0	1.8	0.	71.	.1	6.7	MINIMUM
HIGH	1.8	2.5	30.5	10.2	0.	112.	1.8	29.0	MAXIMUM
AVERAGE	.4	.8	24.78	7.1	0.	89.	.5	15.0	MOYENNE
STD.DEV.	.3	.4	3.66	2.2	0.	14.	.4	6.0	ECART-TYPE
PERCNT:10TH	.2	.4	20.0	4.6	0.	72.	.1	7.1	10 <sup>e</sup> PERCNT
25TH	.3	.6	22.	5.6	0.	77.	.2	9.3	25 <sup>e</sup>
MEDIAN 50TH	.3	.8	25.0	6.9	0.	87.	.3	16.2	50 <sup>e</sup> MEDIANE
75TH	.3	.9	28.0	8.9	0.	101.	.7	20.	75 <sup>e</sup>
90TH	.4	1.0	30.	9.9	0.	107.	.9	22.	90 <sup>e</sup>
SECONDARY CODE			03L				06L	04L 06L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO O2 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0417	22(7)	25(0)	21(20)	21(20)	25(12)	25(0)	25(5)	14(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.1	.040	L.002	L.001	L.003	.7	L.5	9.9	MINIMUM
HIGH	.4	.270	.003	.007	.110	4.7	7.0	13.2	MAXIMUM
AVERAGE	.2*	.129	.002*	.002*	.016*	3.24	1.8*	11.6	MOYENNE
STD.DEV.	.1*	.065	.001*	.001*	.024*	.98	1.4*	1.0	ECART-TYPE
PERCNT:10TH	L.1	.050	L.002	L.001	L.003	1.8	L0.	10.4	10 <sup>e</sup> PERCNT
25TH	L.1	.080	L.002	L.001	L.005	2.7	1.0	10.6	25 <sup>e</sup>
MEDIAN 50TH	.2	.120	L.002	L.001	.007	3.6	1.0	11.7	50 <sup>e</sup> MEDIANE
75TH	.2	.150	L.003	L.003	.017	3.9	2.0	12.2	75 <sup>e</sup>
90TH	.3	.25	L.003	L.003	.040	4.1	3.0	12.8	90 <sup>e</sup>
SECONDARY CODE	01L		56L	56L	06L				CODE DE SECOURS

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## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0017 LAT. 52 D 45 M 27 S LONG. 117 D 58 M 30 S

UTM 11 434200E 5845500 N  
JUN 13 1973 TO: A AUG 12 1975ATHABASCA RIVER AT HWY 93A ABOUT 3.8  
MILES ABOVE MOUTH OF ASTORIA RIVER

	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	
SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS) 0417	8(3)			8(8)	8(4)	13(11)	9(3)		ECHANTILLONS(IND.)
LOW	L.02			L.010	L.01	L.04	L.04		MINIMUM
HIGH	.05			L.015	.30	.07	2.60		MAXIMUM
AVERAGE	.03*				.07*	.048*	.58*		MOYENNE
STD.DEV.	.01*				.10*	.008*	.89*		ECART-TYPE
PERCNT:10TH						L.04			10 <sup>e</sup> PERCNT
25TH	L.02			L.010	L.01	L.04	.04		25 <sup>e</sup>
MEDIAN 50TH	.02			L.010	.02*	L.05	.10		50 <sup>e</sup> MEDIANE
75TH	.03			L.015	.10	L.05	.49		75 <sup>e</sup>
90TH						.05			90 <sup>e</sup>
SECONDARY CODE						04L	04L		CODE DE SECOURS

	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	
SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS) 0417		8(3)	8(1)	6(5)	4(4)			8(8)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH		.014	.02	L.005	L.0005			L.01	MAXIMUM
AVERAGE		.004*	.006*	.0012*					MOYENNE
STD.DEV.		.004*	.006*	.0018*					ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.001	.001	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH		.003	.005	L.0005	L.0005			L.01	50 <sup>e</sup> MEDIANE
75TH		.005	.007	.0005	L.0005			L.01	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			04P	03L					CODE DE SECOURS

	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PHENOL MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS) 0417	8(5)	8(7)	8(8)		8(8)			25(14)	ECHANTILLONS(IND.)
LOW	L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH	.002	L.1	L.05		L.004			.08	MAXIMUM
AVERAGE	.001*	.1*						.06*	MOYENNE
STD.DEV.	.000*	.0*						.01*	ECART-TYPE
PERCNT:10TH								L.05	10 <sup>e</sup> PERCNT
25TH	L.001	.0*	L.05		L.001			L.05	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.1	L.05		L.001			L.05	50 <sup>e</sup> MEDIANE
75TH	.001	L.1	L.05		L.004			.06	75 <sup>e</sup>
90TH								.07	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0017** LAT. **52 D 45 M 27 S** LONG. **117 D 58 M 30 S**UTM **11 434200 E 5845500 N**  
JUN 13, 1973 TO/À JAN 20, 1976ATHABASCA RIVER AT HWY 93A ABOUT 3.8  
MILES ABOVE MOUTH OF ASTORIA RIVER,

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C.	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	BACT.DENS. NO/ML	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417				16(8)	9(9)	1(0)	9(8)	9(9)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>				L30.	L.001	.007	L.001	L.002	<b>MINIMUM</b>
<b>HIGH</b>				1500.	L.001	.007	.001	L.002	<b>MAXIMUM</b>
<b>AVERAGE</b>				218.*			.001*		<b>MOYENNE</b>
<b>STD.DEV.</b>				413.*			.000*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				L30.					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				L30.	L.001		L.001	L.002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				31.*	L.001		L.001	L.002	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				150.	L.001		L.001	L.002	<b>75<sup>e</sup></b>
<b>90TH</b>				920.					<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>MINIMUM</b>
<b>HIGH</b>	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOLOR 1254 (PCB'S)	18161L AROCOLOR 1248 (PCB'S)	18162L AROCOLOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417	9(9)	9(9)	9(9)	9(9)	9(9)	9(8)	9(8)	9(9)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.2	L.01	L.004	L.002	L.009	.011	L.02	L.055	<b>MINIMUM</b>
<b>HIGH</b>	L.2	L.012	L.004	L.002	L.009	L.032	.063	L.06	<b>MAXIMUM</b>
<b>AVERAGE</b>						.029*	.028*		<b>MOYENNE</b>
<b>STD.DEV.</b>						.007*	.013*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0018 LAT 52 D 51 M 54 S LONG 118 D 4 M 12 S

UTM 11 428000E 5857600N

AUG 31 1972 TO-A JAN 20 1976

MIETTE RIVER AT THE MOUTH AT HWY 93A  
JASPER NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00211L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG L	MG L	REL. UNITS	JTU	PH UNITS	MG L	PH UNITS
SAMPLES(FLAGS)	0417	34(0)	34(1)	30(0)	34(15)	34(0)	34(0)	34(1)	ECHANTILLONS(IND.)
LOW		74.	38.	36.0	L5.	.2	7.0	-1.5	MINIMUM
HIGH		254.	134.	121.	40.	31.0	8.2	85.4	MAXIMUM
AVERAGE		181.	97.*	90.4	10.*	5.3	60.7	.1	MOYENNE
STD.DEV.		52.	29.*	26.4	10.*	8.3	18.8		ECART-TYPE
PERCNT:10TH		115.	55.	50.6	L5.	.7	37.3	-1.1	10 <sup>e</sup> PERCNT
25TH		133.	72.	70.0	L5.	1.2	42.6	-.9	25 <sup>e</sup>
MEDIAN 50TH		188.	106.	100.0	5.	2.4	7.8	-6	50 <sup>e</sup> MEDIANE
75TH		229.	122.	114.	10.	5.0	79.7	-.3	75 <sup>e</sup>
90TH		241.	129.	119.0	25.	12.0	82.0	-.1	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONAT (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG L	NA MG L	CA MG L	MG MG L	CO3 MG L	HCO3 MG L	CL MG L	SO4 MG L
SAMPLES(FLAGS)	0417	34(0)	34(1)	34(0)	30(0)	33(0)	33(0)	34(0)	ECHANTILLONS(IND.)
LOW		.2	L.1	8.9	3.3	0.	32.	.2	9.0
HIGH		1.7	3.6	31.9	12.0	0.	104.	3.0	38.5
AVERAGE		.4	1.8*	21.98	8.3	0.	73.	.7	27.6
STD.DEV.		.3	.8*	6.84	2.7	0.	23.	.6	8.3
PERCNT:10TH		.2	.8	12.0	3.8	0.	45.	.2	16.0
25TH		.3	1.1	15.9	6.0	0.	52.	.3	23.
MEDIAN 50TH		.3	1.9	23.00	8.9	0.	72.	.6	30.5
75TH		.4	2.4	29.0	10.2	0.	96.	.8	34.8
90TH		.6	2.5	29.7	11.3	0.	99.	1.1	36.0
SECONDARY CODE				03L			06L	06L 04L 01L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	MG/L	MG/L	MG/L	MG/L
SAMPLES(FLAGS)	0417	30(10)	34(0)	30(26)	30(23)	33(17)	33(0)	34(8)	13(0)
LOW		L.1	.02	L.002	L.001	L.003	2.2	L.5	7.0
HIGH		1.4	1.00	.050	.054	.039	5.0	9.0	13.0
AVERAGE		.2*	.145	.004*	.004*	.009*	3.72	2.2*	11.1
STD.DEV.		.2*	.206	.009*	.010*	.009*	.71	1.8*	1.7
PERCNT:10TH		L.1	.030	L.002	L.001	L.003	2.5	L.5	9.0
25TH		L.1	.060	L.002	L.001	L.005	3.3	1.0	10.4
MEDIAN 50TH		.2	.100	L.002	L.002	L.005	4.0	2.0	11.6
75TH		.3	.120	L.003	L.003	.009	4.2	3.0	12.0
90TH		.4	.220	.003	.004	.018	4.3	4.0	12.7
SECONDARY CODE		01L		56L	56L	06L	01L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79

ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0018** LAT. **52 D 51M 54 S** LONG. **118 D 4M 12 S**

UTM **11 428000E 5857600 N**  
AUG 31, 1972 TO/A AUG 11, 1975

MIETTE RIVER AT THE MOUTH AT HWY 93A,  
JASPER NATIONAL PARK, ALBERTA

		05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS)	0417	9(3)			10(9)	10(3)	20(3)	11(1)		ECHANTILLONS(IND.)
LOW		L.02			L.010	L.01	.04	L.04		MINIMUM
HIGH		.06			L.015	.06	.34	1.00		MAXIMUM
AVERAGE		.03*			.012'	.02'	.101'	.23'		MOYENNE
STD.DEV.		.02*			.003*	.02*	.080*	.28*		ECART-TYPE
PERCNT:10TH					L.010	L.01	L.050	.10		10 <sup>e</sup> PERCNT
25TH		L.02			L.010	L.01	.055	.11		25 <sup>e</sup>
MEDIAN 50TH		.03			.012'	.02	.075	.13		50 <sup>e</sup> MEDIANE
75TH		.05			L.015	.02	.110	.21		75 <sup>e</sup>
90TH					L.015	.05	.220	.46		90 <sup>e</sup>
SECONDARY CODE							04L	04L		CODE DE SECOURS

		28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	
SAMPLES(FLAGS)	0417		10(7)	10(2)	7(6)	4(4)			10(10)	ECHANTILLONS(IND.)
LOW			L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH			.007	.010	.010	L.0005			L.01	MAXIMUM
AVERAGE			.002*	.005*	.0031*					MOYENNE
STD.DEV.			.002*	.003*	.0037*					ECART-TYPE
PERCNT:10TH			L.001	.001*					L.00	10 <sup>e</sup> PERCNT
25TH			L.001	.002	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH			L.001	.005	L.0005	L.0005			L.01	50 <sup>e</sup> MEDIANE
75TH			.002	.008	L.005	L.0005			L.01	75 <sup>e</sup>
90TH			.005	.010*					L.01	90 <sup>e</sup>
SECONDARY CODE				04P	03L					CODE DE SECOURS

		48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	80311P MERCURY EXTRBLE. HG UG/L	81301P THALLIUM EXTRBLE. TL MG/L	82302P LEAD EXTRBLE. PB MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06604P CYANIDE DISSOLVED CN MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0417	9(6)	10(10)	9(8)		10(10)			33(28)	ECHANTILLONS(IND.)
LOW		L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH		.002	L.1	.05		L.004			.07	MAXIMUM
AVERAGE		.001*		.05*					.05*	MOYENNE
STD.DEV.		.000*		.00*					.00*	ECART-TYPE
PERCNT:10TH			L.0			L.001			L.05	10 <sup>e</sup> PERCNT
25TH		L.001	L.0	L.05		L.001			L.05	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.1	L.05		L.001			L.05	50 <sup>e</sup> MEDIANE
75TH		.001	L.1	L.05		L.004			L.05	75 <sup>e</sup>
90TH			L.1			L.004			.05	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0018 LAT. 52 D 51M 54 S LONG. 118 D 4M 12 S

UTM 11 428000E 5857600N  
AUG 31 1972 TO/A JAN 20 1976MIETTE RIVER AT THE MOUTH AT HWY 93A  
JASPER NATIONAL PARK ALBERTA

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C.	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18070L HEOD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	BACT DENS NO/ML	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417				16(7)	11(11)	1(0)	11(11)	11(11)	ECHANTILLONS(IND.)
LOW				27.	L.001	.003	L.001	L.002	MINIMUM
HIGH				1100.	L.001	.003	L.001	L.002	MAXIMUM
AVERAGE				151.*					MOYENNE
STD.DEV.				265.*					ECART-TYPE
PERCNT:10TH				L30.	L.001		L.001	L.002	10 <sup>e</sup> PERCNT
25TH				L30.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH				52.*	L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH				145.	L.001		L.001	L.002	75 <sup>e</sup>
90TH				290.	L.001		L.001	L.002	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	11(11)	11(11)	11(11)	11(11)	11(11)	11(11)	11(11)	11(11)	ECHANTILLONS(IND.)
LOW	L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	10 <sup>e</sup> PERCNT
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	10(10)	11(11)	11(11)	11(11)	11(11)	9(9)	10(10)	9(9)	ECHANTILLONS(IND.)
LOW	L.2	L.01	L.004	L.001	L.006	L.03	L.02	L.055	MINIMUM
HIGH	L.2	L.012	L.004	L.018	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH	L.200	L.012	L.004	L.002	L.009		L.022		10 <sup>e</sup> PERCNT
25TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	75 <sup>e</sup>
90TH	L.200	L.012	L.004	L.002	L.009		L.024		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0019** LAT. **52 D 54 M 33 S** LONG. **118 D 3 M 24 S**UTM **11 428900E 5862500 N**  
AUG 31, 1972 TO/A OCT 22, 1976ATHABASCA RIVER AT HWY BRIDGE ABOUT  
2 MILES BELOW JASPER.

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b> 0417	79(0)	34(2)	30(0)	77(42)	78(0)	79(0)	34(0)	34(2)	<b>ECHANTILLONS(IND.)</b>
LOW	113.	66.	65.0	L5.	.4	7.7	45.	-.4	<b>MINIMUM</b>
HIGH	274.	156.	162.	150.	235.	8.4	119.	.4	<b>MAXIMUM</b>
AVERAGE	163.	102.*	100.8	10.*	35.3		79.0		<b>MOYENNE</b>
STD.DEV.	39.	22.*	22.0	22.*	55.9		17.0		<b>ECART-TYPE</b>
PERCNT:10TH	120.	72.	69.8	L5.	1.5	8.0	58.0	-.4	<b>10<sup>e</sup> PERCNT</b>
25TH	128.	78.	90.	L5.	2.7	8.0	61.7	Q-.3	<b>25<sup>e</sup></b>
MEDIAN 50TH	156.	105.	104.0	L5.	7.1	8.1	82.0	-.1	<b>50<sup>e</sup> MEDIANE</b>
75TH	188.	120.	113.	5.	45.	8.2	91.	.0	<b>75<sup>e</sup></b>
90TH	227.	124.	121.5	20.	110.	8.3	93.3	.1	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b> 0417	34(0)	34(0)	34(0)	30(0)	34(0)	34(0)	34(2)	34(0)	<b>ECHANTILLONS(IND.)</b>
LOW	.1	.4	16.9	4.3	0.	55.	L.1	7.8	<b>MINIMUM</b>
HIGH	1.8	1.8	38.1	17.7	0.	145.	1.6	27.	<b>MAXIMUM</b>
AVERAGE	.5	1.2	26.60	8.1	0.	96.	.5*	18.2	<b>MOYENNE</b>
STD.DEV.	.3	.4	5.59	3.0	0.	21.	.3*	5.5	<b>ECART-TYPE</b>
PERCNT:10TH	.3	.6	19.0	4.8	0.	71.	.2	10.3	<b>10<sup>e</sup> PERCNT</b>
25TH	.3	.9	21.	5.8	0.	75.	.3	13.0	<b>25<sup>e</sup></b>
MEDIAN 50TH	.4	1.2	27.40	7.7	0.	100.	.5	20.0	<b>50<sup>e</sup> MEDIANE</b>
75TH	.5	1.5	31.0	8.4	0.	111.	.6	22.3	<b>75<sup>e</sup></b>
90TH	.6	1.6	32.7	11.6	0.	114.	.8	24.	<b>90<sup>e</sup></b>
SECONDARY CODE			03L				06L	06L 04L 01L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	08101P OXYGEN DISSOLVED DO O2	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0417	75(27)	60(0)	28(20)	28(13)	77(12)	33(0)	34(6)	15(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.1	.03	L.002	L.001	L.003	1.9	L.5	9.8	<b>MINIMUM</b>
HIGH	.6	1.30	.009	.015	.17	5.0	8.	12.9	<b>MAXIMUM</b>
AVERAGE	.2*	.155	.003*	.004*	.026*	3.75	2.3*	11.1	<b>MOYENNE</b>
STD.DEV.	.1*	.276	.002*	.003*	.036*	.85	1.8*	1.0	<b>ECART-TYPE</b>
PERCNT:10TH	L.1	.040	L.002	L.001	.003	2.4	L.5	10.0	<b>10<sup>e</sup> PERCNT</b>
25TH	L.1	.050	L.002	L.001	.005	3.1	1.0	10.2	<b>25<sup>e</sup></b>
MEDIAN 50TH	.1	.060	L.003	.003	.010	4.1	2.0	11.0	<b>50<sup>e</sup> MEDIANE</b>
75TH	.2	.115	.003	.005	.032	4.2	3.0	12.3	<b>75<sup>e</sup></b>
90TH	.3	.250	.006	.008	.068	4.6	5.	12.5	<b>90<sup>e</sup></b>
SECONDARY CODE	01L	05L	56L	56L	06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0019 LAT 52 D 54 M 33 S LONG 118 D 3 M 24 S

UTM 11 428900E 5862500N  
AUG 31 1972 TO A AUG 11 1975ATHABASCA RIVER AT HWY BRIDGE ABOUT  
2 MILES BELOW JASPER

		05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS)	0417	9(3)			10(9)	10(5)	21(14)	11(4)		ECHANTILLONS(IND.)
LOW		L.02			L.010	L.01	L.001	L.04		MINIMUM
HIGH		.05			L.015	.25	.33	1.90		MAXIMUM
AVERAGE		.03*			.012*	.05*	.056*	.49*		MOYENNE
STD.DEV.		.01*			.003*	.08*	.065*	.66*		ECART-TYPE
PERCNT:10TH					L.010	L.01	.020	L.04		10 <sup>e</sup> PERCNT
25TH		L.02			L.010	L.01	L.04	L.05		25 <sup>e</sup>
MEDIAN 50TH		.02			.010*	.01*	L.05	.16		50 <sup>e</sup> MEDIANE
75TH		.03			L.015	.07	L.05	.70		75 <sup>e</sup>
90TH					L.015	.17	.05	1.60		90 <sup>e</sup>
SECONDARY CODE							04L	04L		CODE DE SECOURS

		28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS)	0417		10(6)	10(5)	7(7)	4(4)			10(10)	ECHANTILLONS(IND.)
LOW			L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH			.002	.01	L.005	L.0005			L.01	MAXIMUM
AVERAGE			.001*	.003*						MOYENNE
STD.DEV.			.000*	.003*						ECART-TYPE
PERCNT:10TH			L.001	L.001					L.00	10 <sup>e</sup> PERCNT
25TH			L.001	L.001	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH			L.001	.001*	L.0005	L.0005			L.01	50 <sup>e</sup> MEDIANE
75TH			.002	.004	L.005	L.0005			L.01	75 <sup>e</sup>
90TH			.002	.008					L.01	90 <sup>e</sup>
SECONDARY CODE				04P	03L					CODE DE SECOURS

		48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	06535P PHENOLIC MATERIAL PHENOL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
	SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS)	0417	10(7)	10(10)	9(8)		9(7)			32(13)	ECHANTILLONS(IND.)
LOW		L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH		.002	L.1	.05		.006			.14	MAXIMUM
AVERAGE		.001*		.05*		.003*			.06*	MOYENNE
STD.DEV.		.000*		.00*		.002*			.02*	ECART-TYPE
PERCNT:10TH		L.001	L.0						L.05	10 <sup>e</sup> PERCNT
25TH		L.001	L.0	L.05		L.001			L.05	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.1	L.05		L.001			.06	50 <sup>e</sup> MEDIANE
75TH		.001	L.1	L.05		L.004			.06	75 <sup>e</sup>
90TH		.002	L.1						.07	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0019** LAT. **52 D 54 M 33 S** LONG. **118 D 3 M 24 S**UTM **11 428900E 5862500 N**  
AUG 31, 1972 TO/A OCT 22, 1976ATHABASCA RIVER AT HWY BRIDGE ABOUT  
2 MILES BELOW JASPER.

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C.	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	BACT.DENS. NO/ML	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417	75(1)	75(4)	73(2)	16(2)	11(11)	1(0)	10(9)	11(11)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>50.</b>	<b>2.</b>	<b>0.</b>	<b>105.</b>	<b>L.001</b>	<b>.006</b>	<b>L.001</b>	<b>L.002</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>900.</b>	<b>660.</b>	<b>79.</b>	<b>G3000.</b>	<b>L.001</b>	<b>.006</b>	<b>.001</b>	<b>L.002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>301.*</b>	<b>56.*</b>	<b>17.*</b>	<b>760.*</b>			<b>.001*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>234.*</b>	<b>84.*</b>	<b>18.*</b>	<b>726.*</b>			<b>.000*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>90.</b>	<b>8.</b>	<b>2.</b>	<b>120.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>110.</b>	<b>13.</b>	<b>5.</b>	<b>275.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>190.</b>	<b>31.</b>	<b>11.</b>	<b>520.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>390.</b>	<b>73.</b>	<b>25.</b>	<b>1050.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>710.</b>	<b>127.</b>	<b>37.</b>	<b>1500.</b>	<b>L.001</b>		<b>.001*</b>	<b>L.002</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417	10(10)	11(11)	11(11)	11(11)	11(11)	11(11)	11(11)	11(11)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.003</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOLOR 1254 (PCB'S)	18161L AROCOLOR 1248 (PCB'S)	18162L AROCOLOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417	10(10)	11(11)	10(10)	10(10)	10(10)	9(8)	9(9)	8(8)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.2</b>	<b>L.01</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>.015</b>	<b>L.02</b>	<b>L.055</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.2</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.06</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>						<b>.030*</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>						<b>.006*</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.200</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.2</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.200</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.2</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>L.200</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>				<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0020 LAT 52 D 56M 0 S LONG 118 D 1M 48 S

UTM 11 430800E 5865100 N  
AUG 31 1972 TO A OCT 21 1975MALIGNE RIVER APPROX 0.2 KM ABOVE THE  
MOUTH (AT SIXTH BRIDGE) JASPER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE CM					PH UNITS			
SAMPLES(FLAGS) 0417	49(0)	34(0)	30(0)	48(40)	49(0)	49(0)	34(0)	34(0)	ECHANTILLONS(IND.)
LOW	124.	72.	73.0	L5.	.2	7.8	46.5	-.5	MINIMUM
HIGH	280.	161.	141.	30.	55.0	8.3	149.	.5	MAXIMUM
AVERAGE	210.	124.	116.5	6.*	5.4		85.8		MOYENNE
STD.DEV.	42.	24.	20.6	4.*	10.3		17.9		ECART-TYPE
PERCENT:10TH	160.	90.	85.5	L5.	.5	7.9	64.0	-.4	10 <sup>e</sup> PERCNT
25TH	174.	97.	100.	L5.	.7	8.0	68.6	.0	25 <sup>e</sup>
MEDIAN 50TH	207.	133.	124.0	L5.	1.8	8.1	89.6	.1	50 <sup>e</sup> MEDIANE
75TH	250.	143.	134.	L5.	5.0	8.2	95.	.2	75 <sup>e</sup>
90TH	269.	148.	138.0	5.	9.2	8.3	98.4	.3	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBON. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0417	34(0)	34(0)	34(0)	30(0)	34(0)	34(0)	34(0)	34(0)	ECHANTILLONS(IND.)
LOW	.3	.6	21.0	5.0	0.	57.	.2	8.7	MINIMUM
HIGH	1.5	2.3	42.0	11.7	1.	182.	1.6	40.0	MAXIMUM
AVERAGE	.6	1.4	32.32	8.4	0.	104.	.8	29.2	MOYENNE
STD.DEV.	.3	.4	6.19	1.9	0.	22.	.4	8.0	ECART-TYPE
PERCENT:10TH	.4	.8	24.	5.8	0.	78.	.2	19.0	10 <sup>e</sup> PERCNT
25TH	.5	1.0	25.3	6.5	0.	84.	.4	22.	25 <sup>e</sup>
MEDIAN 50TH	.6	1.4	34.00	8.4	0.	109.	.9	31.0	50 <sup>e</sup> MEDIANE
75TH	.7	1.6	37.0	9.6	0.	116.	1.1	36.3	75 <sup>e</sup>
90TH	.9	1.8	41.	10.7	0.	120.	1.4	37.1	90 <sup>e</sup>
SECONDARY CODE			03L				06L	04L 06L 01L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO O2 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0417	45(18)	43(0)	30(26)	30(26)	48(21)	33(0)	34(6)	14(0)	ECHANTILLONS(IND.)
LOW	L1	.04	L.002	L.001	L.003	2.1	L.5	9.6	MINIMUM
HIGH	.5	1.20	.004	.005	.027	3.7	6.0	12.1	MAXIMUM
AVERAGE	.2*	.132	.003*	.002*	.006*	3.16	2.2*	10.9	MOYENNE
STD.DEV.	.1*	.183	.001*	.001*	.005*	.42	1.4*	.8	ECART-TYPE
PERCENT:10TH	L.1	.04	L.002	L.001	L.003	2.4	L0.	9.7	10 <sup>e</sup> PERCNT
25TH	L.1	.05	L.002	L.001	.003	3.0	1.	10.0	25 <sup>e</sup>
MEDIAN 50TH	.1	.09	L.002	L.001	L.005	3.2	2.0	11.2	50 <sup>e</sup> MEDIANE
75TH	.2	.130	L.003	L.003	.007	3.5	3.	11.5	75 <sup>e</sup>
90TH	.4	.20	.004	.004	.015	3.6	4.0	11.7	90 <sup>e</sup>
SECONDARY CODE	01L		56L	56L	06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0020** LAT. **52 D 56 M 0 S** LONG. **118 D 1 M 48 S**UTM **11 430800E 5865100 N**  
AUG 31, 1972 TO/A AUG 11, 1975MALIGNE RIVER APPROX. 0.2 KM ABOVE THE  
MOUTH (AT SIXTH BRIDGE), JASPER

	SUBM ID	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS)	0417	9(3)	1(0)		10(10)	10(8)	21(18)	11(6)		ECHANTILLONS(IND.)
LOW		L.02	.45		L.010	L.01	L.001	L.04		MINIMUM
HIGH		.05	.45		L.015	.04	.14	.80		MAXIMUM
AVERAGE		.03*				.01*	.044*	.15*		MOYENNE
STD.DEV.		.01*				.01*	.028*	.22*		ECART-TYPE
PERCNT:10TH					L.010	L.01	L.001	L.04		10 <sup>e</sup> PERCNT
25TH		L.02			L.010	L.01	L.04	L.04		25 <sup>e</sup>
MEDIAN 50TH		.02			L.010	L.01	L.05	L.05		50 <sup>e</sup> MEDIANE
75TH		.03			L.015	L.01	L.05	.16		75 <sup>e</sup>
90TH					L.015	.03	L.05	.22		90 <sup>e</sup>
SECONDARY CODE							04L	04L		CODE DE SECOURS

	SUBM ID	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	
SAMPLES(FLAGS)	0417		10(8)	10(5)	7(6)	4(4)			10(10)	ECHANTILLONS(IND.)
LOW			L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH			.003	L.01	L.005	L.0005			L.01	MAXIMUM
AVERAGE			.001*	.003*	.0019*					MOYENNE
STD.DEV.			.001*	.003*	.0022*					ECART-TYPE
PERCNT:10TH			L.001	L.001					L.00	10 <sup>e</sup> PERCNT
25TH			L.001	L.001	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH			L.001	.002	L.0005	L.0005			L.01	50 <sup>e</sup> MEDIANE
75TH			L.001	.006	L.005	L.0005			L.01	75 <sup>e</sup>
90TH			.003	.008*					L.01	90 <sup>e</sup>
SECONDARY CODE				04P	03L					CODE DE SECOURS

	SUBM ID	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	80311P MERCURY EXTRBLE. HG UG/L	81301P THALLIUM EXTRBLE. TL MG/L	82302P LEAD EXTRBLE. PB MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06604P CYANIDE DISSOLVED CN MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0417	10(8)	10(10)	9(9)		10(10)			34(3)	ECHANTILLONS(IND.)
LOW		L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH		.002	L.1	L.05		L.004			.17	MAXIMUM
AVERAGE		.001*							.11*	MOYENNE
STD.DEV.		.000*							.04*	ECART-TYPE
PERCNT:10TH		L.001	L.0			L.001			.05	10 <sup>e</sup> PERCNT
25TH		L.001	L.0	L.05		L.001			.08	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.1	L.05		L.001			.11	50 <sup>e</sup> MEDIANE
75TH		L.001	L.1	L.05		L.004			.14	75 <sup>e</sup>
90TH		.002	L.1			L.004			.16	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB BASIN

STATION **00AL07AA0020** LAT. **52 D 56M 0 S** LONG. **118 D 1M 48 S**

UTM **11 430800E 5865100 N**  
AUG 31 1972 TO/A OCT 21 1976

MALIGNE RIVER APPROX. 0.2 KM ABOVE THE  
MOUTH (AT SIXTH BRIDGE), JASPER

		36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT DENS NO./ML	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
	SUBM ID	MF NO./DL	MF NO./DL	MF NO./DL		UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0417	25(4)	25(21)	25(15)	17(7)	11(11)	1(1)	11(11)	11(11)	ECHANTILLONS(IND.)
LOW		L1.	L1.	L1.	10.	L.001	L.001	L.001	L.002	MINIMUM
HIGH		G60.	3.	10.	1800.	L.001	L.001	L.001	L.002	MAXIMUM
AVERAGE		10.*	1.*	2.*	241.*					MOYENNE
STD.DEV.		12.*	0.*	2.*	480.*					ECART-TYPE
PERCNT:10TH		L1.	L1.	L1.	11.	L.001		L.001	L.002	10 <sup>e</sup> PERCNT
25TH		3.	L1.	L1.	L30.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH		6.	L1.	L1.	L30.	L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH		14.	L1.	2.	200.	L.001		L.001	L.002	75 <sup>e</sup>
90TH		17.	1.	4.	1100.	L.001		L.001	L.002	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0417	10(10)	11(11)	11(11)	11(11)	11(11)	11(11)	11(10)	11(11)	ECHANTILLONS(IND.)
LOW		L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE								.001*		MOYENNE
STD.DEV.								.000*		ECART-TYPE
PERCNT:10TH		L.003	L.004	L.002	L.001	L.001	L.003	L.001	L.002	10 <sup>e</sup> PERCNT
25TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH		L.004	L.004	L.002	L.001	L.001	L.003	.001	L.002	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0417	9(9)	11(11)	10(10)	10(10)	10(10)	8(8)	8(8)	7(7)	ECHANTILLONS(IND.)
LOW		L.2	L.01	L.004	L.001	L.006	L.03	L.02	L.055	MINIMUM
HIGH		L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH			L.012	L.004	L.002	L.007				10 <sup>e</sup> PERCNT
25TH		L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH		L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH		L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	75 <sup>e</sup>
90TH			L.012	L.004	L.002	L.009				90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0021** LAT. **52 D 58 M 51 S** LONG. **118 D 2 M 30 S**UTM **11 430100E 5870400 N**  
AUG 31, 1972 TO/A JAN 20, 1976ATHABASCA RIVER ABOUT 0.5 MILE ABOVE  
HENRY HOUSE, JASPER NATIONAL PARK.

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b> 0417	31(0)	31(0)	28(0)	31(18)	31(0)	31(0)	31(0)	31(0)	<b>ECHANTILLONS(IND.)</b>
LOW	125.	67.	66.0	L5.	.7	7.6	56.0	-.6	<b>MINIMUM</b>
HIGH	255.	136.	127.	50.	110.	8.2	97.2	.3	<b>MAXIMUM</b>
AVERAGE	194.	103.	99.9	9.*	18.8		78.2		<b>MOYENNE</b>
STD.DEV.	42.	23.	21.5	9.*	29.4		14.9		<b>ECART-TYPE</b>
PERCNT:10TH	134.	73.	70.0	L5.	1.1	7.9	58.0	-.4	<b>10<sup>e</sup> PERCNT</b>
25TH	152.	79.	78.8	L5.	2.0	7.9	61.8	-.3	<b>25<sup>e</sup></b>
MEDIAN 50TH	202.	107.	101.0	L5.	3.0	8.1	75.9	-.1	<b>50<sup>e</sup> MEDIANE</b>
75TH	234.	123.	118.5	8.	30.0	8.2	93.0	.0	<b>75<sup>e</sup></b>
90TH	246.	129.	127.	20.	61.0	8.2	95.0	.1	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBON. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0417	31(0)	31(0)	31(0)	28(0)	31(0)	31(0)	31(0)	31(0)	<b>ECHANTILLONS(IND.)</b>
LOW	.2	.4	19.0	3.1	0.	68.	.1	8.2	<b>MINIMUM</b>
HIGH	1.2	2.2	34.4	12.4	0.	118.	1.8	33.0	<b>MAXIMUM</b>
AVERAGE	.4	1.2	26.91	7.8	0.	95.	.7	19.4	<b>MOYENNE</b>
STD.DEV.	.2	.5	4.91	2.5	0.	18.	.4	6.8	<b>ECART-TYPE</b>
PERCNT:10TH	.2	.6	21.0	4.6	0.	71.	.2	10.0	<b>10<sup>e</sup> PERCNT</b>
25TH	.3	.8	22.0	5.4	0.	75.	.3	12.	<b>25<sup>e</sup></b>
MEDIAN 50TH	.4	1.3	28.0	8.3	0.	93.	.7	21.0	<b>50<sup>e</sup> MEDIANE</b>
75TH	.5	1.6	31.0	10.1	0.	113.	1.0	25.	<b>75<sup>e</sup></b>
90TH	.7	1.8	33.	11.1	0.	116.	1.3	26.	<b>90<sup>e</sup></b>
SECONDARY CODE			03L				06L	06L 04L 01L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO O2 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0417	27(4)	31(0)	27(25)	27(16)	30(4)	30(0)	31(5)	14(0)	<b>ECHANTILLONS(IND.)</b>
LOW	.1	.03	L.002	L.001	.004	2.0	L.5	10.1	<b>MINIMUM</b>
HIGH	.4	1.10	.004	.011	.056	4.7	8.0	12.7	<b>MAXIMUM</b>
AVERAGE	.2*	.184	.002*	.003*	.012*	3.53	2.5*	11.3	<b>MOYENNE</b>
STD.DEV.	.1*	.217	.001*	.002*	.011*	.75	1.8*	.8	<b>ECART-TYPE</b>
PERCNT:10TH	L.1	.04	L.002	L.001	L.005	2.35	L.0.	10.1	<b>10<sup>e</sup> PERCNT</b>
25TH	.1	.070	L.002	L.001	.005	3.0	1.	10.6	<b>25<sup>e</sup></b>
MEDIAN 50TH	.2	.11	L.002	L.003	.008	3.70	2.0	11.4	<b>50<sup>e</sup> MEDIANE</b>
75TH	.3	.200	L.003	.003	.009	4.0	4.0	11.9	<b>75<sup>e</sup></b>
90TH	.4	.400	L.003	.005	.028	4.30	4.0	12.1	<b>90<sup>e</sup></b>
SECONDARY CODE	01L		56L	56L	06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0021 LAT 52 D 58 M 51 S LONG. 118 D 2 M 30 S

UTM 11 430100E 5870400 N  
AUG 31 1972 TO/A AUG 12 1975ATHABASCA RIVER ABOUT 0.5 MILE ABOVE  
HENRY HOUSE JASPER NATIONAL PARK

		05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBL. AL MG/L	23302P VANADIUM EXTRBL. V MG/L	24302P CHROMIUM EXTRBL. CR MG/L	25304P MANGANESE EXTRBL. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBL. FE MG/L	27302P COBALT EXTRBL. CO MG/L	
SAMPLES(FLAGS)	0417	8(2)			9(9)	9(3)	17(15)	10(2)		ECHANTILLONS(IND.)
LOW		L.02			L.010	L.01	L.001	L.04		MINIMUM
HIGH		.04			L.015	.30	.19	1.60		MAXIMUM
AVERAGE		.03*				.06*	.051*	.47*		MOYENNE
STD.DEV.		.01*				.09*	.038*	.55*		ECART-TYPE
PERCNT:10TH							.020	.04*		10 <sup>e</sup> PERCNT
25TH		.02*			L.010	L.01	L.04	L.05		25 <sup>e</sup>
MEDIAN 50TH		.02			L.010	.02	L.05	.24		50 <sup>e</sup> MEDIANE
75TH		.03			L.015	.06	L.05	.79		75 <sup>e</sup>
90TH							L.05	1.40		90 <sup>e</sup>
SECONDARY CODE							04L	04L		CODE DE SECOURS

		28302P NICKEL EXTRBL. NI MG/L	29305P COPPER EXTRBL. CU MG/L	30305P ZINC EXTRBL. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	38301P STRONTIUM EXTRBL. SR MG/L	42301P MOLYBDENUM EXTRBL. MO MG/L	47301P SILVER EXTRBL. AG MG/L	
SAMPLES(FLAGS)	0417		9(5)	9(3)	6(6)	4(3)			9(9)	ECHANTILLONS(IND.)
LOW			L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH			.011	L.01	L.005	.0007			L.01	MAXIMUM
AVERAGE			.002*	.004*		.0005*				MOYENNE
STD.DEV.			.003*	.003*		.0001*				ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			L.001	.001	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH			L.001	.004	L.0005	L.0005			L.01	50 <sup>e</sup> MEDIANE
75TH			.002	.007	L.0005	.0006*			L.01	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				04P	03L					CODE DE SECOURS

		48302P CADMIUM EXTRBL. CD MG/L	56301P BARIUM EXTRBL. BA MG/L	80311P MERCURY EXTRBL. HG UG/L	81301P THALLIUM EXTRBL. TL MG/L	82302P LEAD EXTRBL. PB MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06604P CYANIDE DISSOLVED CN MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0417	9(5)	9(8)	8(8)		9(8)			31(8)	ECHANTILLONS(IND.)
LOW		L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH		.002	L.1	L.05		.005			.10	MAXIMUM
AVERAGE		.001*	.1*			.002*			.06*	MOYENNE
STD.DEV.		.000*	.0*			.002*			.01*	ECART-TYPE
PERCNT:10TH									L.05	10 <sup>e</sup> PERCNT
25TH		L.001	L.0	L.05		L.001			L.05	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.1	L.05		L.001			.06	50 <sup>e</sup> MEDIANE
75TH		.001	L.1	L.05		L.004			.07	75 <sup>e</sup>
90TH									.09	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0021** LAT. **52 D 58 M 51 S** LONG. **118 D 2 M 30 S**UTM **11 430100 E 5870400 N**

AUG 31, 1972 TO/À JAN 20, 1976

ATHABASCA RIVER ABOUT 0.5 MILE ABOVE  
HENRY HOUSE, JASPER NATIONAL PARK.

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT.DENS.	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	NO/ML	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417				16(1)	10(10)	1(0)	9(9)	10(10)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>				160.	L.001	.007	L.001	L.002	<b>MINIMUM</b>
<b>HIGH</b>				G3000.	L.001	.007	L.001	L.002	<b>MAXIMUM</b>
<b>AVERAGE</b>				835.*					<b>MOYENNE</b>
<b>STD.DEV.</b>				834.*					<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				170.	L.001			L.002	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				213.	L.001		L.001	L.002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				455.	L.001		L.001	L.002	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				1125.	L.001		L.001	L.002	<b>75<sup>e</sup></b>
<b>90TH</b>				2200.	L.001			L.002	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417	9(9)	10(10)	10(10)	10(10)	10(10)	10(10)	10(10)	10(10)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.004	L.002	L.001	L.001	L.001	L.003	L.001	L.002	<b>MINIMUM</b>
<b>HIGH</b>	L.004	L.004	L.002	L.002	L.001	L.003	L.001	L.002	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		L.003	L.001	L.001	L.001	L.003	L.001	L.002	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>75<sup>e</sup></b>
<b>90TH</b>		L.004	L.002	L.001	L.001	L.003	L.001	L.002	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOLOR 1254 (PCB'S)	18161L AROCOLOR 1248 (PCB'S)	18162L AROCOLOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417	9(9)	10(10)	9(9)	9(9)	9(9)	7(7)	7(7)	7(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.2	L.004	L.004	L.002	L.009	L.03	L.02	L.055	<b>MINIMUM</b>
<b>HIGH</b>	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.06	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		L.007							<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	<b>75<sup>e</sup></b>
<b>90TH</b>		L.012							<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0022 LAT. 53 D 0M 39 S LONG 118 D 5M 15 S

UTM 11 427000E 5873800 N

AUG 31 1972 TO A JAN 20 1976

SNARING RIVER AT HWY 16 BRIDGE ABOUT  
0.58 MILE ABOVE MOUTH JASPER

SUBM ID	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	ALKALINITY TOTAL	SATURATION INDEX (CALCD.)	ECHANTILLONS(IND.)
	USE CM	MG L	CACO3 MG L	REL. UNITS	JTU	PH UNITS	CACO3 MG L	PH UNITS	
SAMPLES(FLAGS)	0417	32(0)	32(1)	29(0)	32(22)	31(0)	32(0)	31(1)	ECHANTILLONS(IND.)
LOW		139.	72.	70.0	L5.	7.7	56.8	.5	MINIMUM
HIGH		726.	313.	397.	20.	8.4	209.	.7	MAXIMUM
AVERAGE		242.	131.*	129.0	7.*	6.3	91.4		MOYENNE
STD.DEV.		106.	48.*	60.6	5.*	10.5	29.0		ECART-TYPE
PERCNT:10TH		151.	84.	77.0	L5.	7.8	62.0	.4	10 <sup>e</sup> PERCNT
25TH		169.	88.	86.2	L5.	7.9	67.0	.2	25 <sup>e</sup>
MEDIAN 50TH		232.	127.	125.	L5.	8.1	94.6	.0	50 <sup>e</sup> MEDIANE
75TH		281.	161.	153.	5.	8.2	105.0	.3	75 <sup>e</sup>
90TH		311.	175.	166.	10.	8.2	113.	.4	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

SUBM ID	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	ECHANTILLONS(IND.)
	K MG L	NA MG L	CA MG L	MG MG L	CO3 MG L	HCO3 MG L	MG L	MG L	
SAMPLES(FLAGS)	0417	32(0)	32(0)	29(0)	32(0)	32(0)	31(1)	32(0)	ECHANTILLONS(IND.)
LOW		.2	.4	20.0	4.5	0.	69.	7.5	MINIMUM
HIGH		2.6	6.4	83.	46.1	1.	255.	53.4	MAXIMUM
AVERAGE		.6	1.3	34.39	10.2	0.	111.	29.2	MOYENNE
STD.DEV.		.5	1.0	12.06	7.5	0.	35.	13.7	ECART-TYPE
PERCNT:10TH		.3	.6	23.0	4.9	0.	76.	11.3	10 <sup>e</sup> PERCNT
25TH		.3	.7	25.00	5.9	0.	82	17.3	25 <sup>e</sup>
MEDIAN 50TH		.5	1.2	33.50	9.3	0.	115.	28.5	50 <sup>e</sup> MEDIANE
75TH		.7	1.6	40.50	12.2	0.	128.	42.2	75 <sup>e</sup>
90TH		.9	1.8	46.4	13.1	0.	138.	47.0	90 <sup>e</sup>
SECONDARY CODE									03L 06L 01L 04L CODE DE SECOURS

SUBM ID	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	ECHANTILLONS(IND.)
	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	MG L	MG L	
SAMPLES(FLAGS)	0417	29(4)	30(0)	28(26)	28(25)	32(19)	31(0)	32(4)	ECHANTILLONS(IND.)
LOW		.1	.03	L.002	L.001	L.003	1.7	9.9	MINIMUM
HIGH		.6	1.10	.015	.021	.048	6.5	14.0	MAXIMUM
AVERAGE		.2*	.194	.003*	.003*	.008*	2.73	11.7	MOYENNE
STD.DEV.		.1*	.248	.002*	.004*	.009*	.85	1.2	ECART-TYPE
PERCNT:10TH		L.1	.040	L.002	L.001	L.003	1.9	10.0	10 <sup>e</sup> PERCNT
25TH		.1	.090	L.002	L.001	.004	2.2	11.1	25 <sup>e</sup>
MEDIAN 50TH		.2	.115	L.002	L.001	L.005	2.8	12.0	50 <sup>e</sup> MEDIANE
75TH		.3	.150	L.003	L.003	.007	3.0	12.3	75 <sup>e</sup>
90TH		.4	.490	L.003	.004	.019	3.2	13.0	90 <sup>e</sup>
SECONDARY CODE									01L 56L 56L 06L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0022 LAT. 53 D 0 M 39 S LONG. 118 D 5 M 15 S

UTM 11 427000E 5873800 N  
AUG 31, 1972 TO/A AUG 12, 1975SNARING RIVER AT HWY 16 BRIDGE ABOUT  
0.58 MILE ABOVE MOUTH, JASPER

		05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS)	0417	9(3)			10(9)	10(9)	18(15)	11(5)		ECHANTILLONS(IND.)
LOW		L.02			L.010	L.01	L.001	L.04		MINIMUM
HIGH		.07			L.015	.03	.20	.52		MAXIMUM
AVERAGE		.03*			.012*	.01*	.047*	.13*		MOYENNE
STD.DEV.		.02*			.003*	.01*	.042*	.15*		ECART-TYPE
PERCNT:10TH					L.010	L.01	L.001	L.04		10 <sup>e</sup> PERCNT
25TH		L.02			L.010	L.01	L.04	L.04		25 <sup>e</sup>
MEDIAN 50TH		.02			.010*	L.01	L.050	.05		50 <sup>e</sup> MEDIANE
75TH		.03			L.015	L.01	L.05	.15		75 <sup>e</sup>
90TH					L.015	.02*	L.05	.25		90 <sup>e</sup>
SECONDARY CODE							04L	04L		CODE DE SECOURS

		28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS)	0417		9(7)	10(3)	7(6)	4(4)			10(10)	ECHANTILLONS(IND.)
LOW			L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH			.004	.040	.008	L.0005			L.01	MAXIMUM
AVERAGE			.001*	.007*	.0022*					MOYENNE
STD.DEV.			.001*	.012*	.0031*					ECART-TYPE
PERCNT:10TH				L.001					L.00	10 <sup>e</sup> PERCNT
25TH			L.001	.001	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH			L.001	.002	L.0005	L.0005			L.01	50 <sup>e</sup> MEDIANE
75TH			L.001	.007	L.005	L.0005			L.01	75 <sup>e</sup>
90TH				.025*					L.01	90 <sup>e</sup>
SECONDARY CODE				04P	03L					CODE DE SECOURS

		48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
	SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PHENOL MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS)	0417	11(7)	10(10)	9(8)		10(8)			32(7)	ECHANTILLONS(IND.)
LOW		L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH		L.012	L.1	.61		.009			.12	MAXIMUM
AVERAGE		.002*		.11*		.003*			.07*	MOYENNE
STD.DEV.		.003*		.19*		.003*			.02*	ECART-TYPE
PERCNT:10TH		L.001	L.0			L.001			L.05	10 <sup>e</sup> PERCNT
25TH		L.001	L.0	L.05		L.001			.05	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.1	L.05		L.002			.06	50 <sup>e</sup> MEDIANE
75TH		.002	L.1	L.05		L.004			.09	75 <sup>e</sup>
90TH		.002	L.1			.007			.10	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

TATWIN 00AL07AA0022 LAT 53 0 0M 39 E LONG 118 0 5M 15 W

M 11 427000 5873800 N  
AUG 31 1972 TO/A JAN 20 1976SNARING RIVER AT HWY 16 BRIDGE ABOUT  
0.58 MILE ABOVE MOUTH JASPER

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT DENS	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO./DL	MF NO./DL	MF NO./DL	NO./ML	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417				16(9)	11(11)	1(0)	11(11)	11(11)	ECHANTILLONS(IND.)
LOW				20.	L.001	.002	L.001	L.002	MINIMUM
HIGH				240.	L.001	.002	L.001	L.002	MAXIMUM
AVERAGE				52.*					MOYENNE
STD.DEV.				58.*					ECART-TYPE
PERCNT:10TH				20.	L.001		L.001	L.002	10 <sup>e</sup> PERCNT
25TH				L30.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH				L30.	L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH				39.	L.001		L.001	L.002	75 <sup>e</sup>
90TH				140.	L.001		L.001	L.002	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	11(11)	11(11)	11(11)	11(11)	11(11)	11(11)	11(11)	11(11)	ECHANTILLONS(IND.)
LOW	L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	10 <sup>e</sup> PERCNT
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	10(10)	11(11)	11(11)	11(11)	11(11)	8(8)	8(8)	7(7)	ECHANTILLONS(IND.)
LOW	L.2	L.01	L.004	L.001	L.006	L.03	L.02	L.055	MINIMUM
HIGH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH	L.200	L.012	L.004	L.002	L.009				10 <sup>e</sup> PERCNT
25TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	75 <sup>e</sup>
90TH	L.200	L.012	L.004	L.002	L.009				90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0023** LAT. **53 D 2 M 30 S** LONG. **118 D 5 M 15 S**UTM **11 427100E 5877200 N**

JUN 13, 1973 TO/A DEC 03, 1979

ATHABASCA RIVER AT HWY 16 BRIDGE  
BELOW CONFLUENCE WITH SNARING RIVER.

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b> 0417	<b>87(0)</b>	<b>51(1)</b>	<b>21(0)</b>	<b>88(55)</b>	<b>88(0)</b>	<b>88(0)</b>	<b>36(0)</b>	<b>51(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0003	<b>124.</b>	<b>60.</b>	<b>68.0</b>	<b>L5.</b>	<b>.3</b>	<b>7.5</b>	<b>58.0</b>	<b>-.5</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>291.</b>	<b>162.</b>	<b>133.</b>	<b>100.</b>	<b>205.</b>	<b>8.7</b>	<b>118.</b>	<b>.6</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>179.</b>	<b>104.*</b>	<b>101.2</b>	<b>10.*</b>	<b>24.8</b>		<b>78.8</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>46.</b>	<b>24.*</b>	<b>21.5</b>	<b>15.*</b>	<b>36.1</b>		<b>15.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>129.</b>	<b>74.</b>	<b>72.0</b>	<b>L5.</b>	<b>1.3</b>	<b>7.9</b>	<b>60.0</b>	<b>-.3</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>136.</b>	<b>78.</b>	<b>76.</b>	<b>L5.</b>	<b>3.2</b>	<b>8.0</b>	<b>63.9</b>	<b>-.2</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>170.</b>	<b>Q106.</b>	<b>107.</b>	<b>L5.</b>	<b>7.9</b>	<b>8.1</b>	<b>77.3</b>	<b>-.1</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>222.</b>	<b>123.</b>	<b>118.</b>	<b>5.</b>	<b>30.5</b>	<b>8.2</b>	<b>91.5</b>	<b>.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>250.</b>	<b>129.</b>	<b>124.</b>	<b>25.</b>	<b>81.</b>	<b>8.3</b>	<b>96.</b>	<b>.1</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b> 0417	<b>52(1)</b>	<b>52(0)</b>	<b>52(0)</b>	<b>21(0)</b>	<b>50(0)</b>	<b>50(0)</b>	<b>52(0)</b>	<b>52(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0003	<b>L.1</b>	<b>.4</b>	<b>18.4</b>	<b>4.3</b>	<b>0.</b>	<b>54.</b>	<b>.2</b>	<b>7.4</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>4.3</b>	<b>2.0</b>	<b>40.9</b>	<b>11.8</b>	<b>0.</b>	<b>144.</b>	<b>4.0</b>	<b>32.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.5*</b>	<b>1.2</b>	<b>27.29</b>	<b>7.9</b>	<b>0.</b>	<b>93.</b>	<b>.7</b>	<b>19.4</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.6*</b>	<b>.5</b>	<b>5.51</b>	<b>2.4</b>	<b>0.</b>	<b>19.</b>	<b>.6</b>	<b>6.8</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.2</b>	<b>.5</b>	<b>20.0</b>	<b>5.0</b>	<b>0.</b>	<b>71.</b>	<b>.2</b>	<b>10.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.3</b>	<b>.7</b>	<b>22.00</b>	<b>5.4</b>	<b>0.</b>	<b>77.</b>	<b>.3</b>	<b>13.2</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.4</b>	<b>1.2</b>	<b>28.15</b>	<b>8.3</b>	<b>0.</b>	<b>94.</b>	<b>.6</b>	<b>21.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.5</b>	<b>1.6</b>	<b>31.90</b>	<b>9.9</b>	<b>0.</b>	<b>110.</b>	<b>.9</b>	<b>25.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.6</b>	<b>1.8</b>	<b>33.7</b>	<b>11.1</b>	<b>0.</b>	<b>116.</b>	<b>1.1</b>	<b>26.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE			03L				06L	04L 06L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	O2 MG/L	
<b>SAMPLES(FLAGS)</b> 0417	<b>64(28)</b>	<b>49(0)</b>	<b>21(19)</b>	<b>21(14)</b>	<b>88(8)</b>	<b>52(0)</b>	<b>31(3)</b>	<b>40(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0003	<b>L.1</b>	<b>.030</b>	<b>L.002</b>	<b>L.001</b>	<b>L.003</b>	<b>1.8</b>	<b>L.5</b>	<b>9.6</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.7</b>	<b>.420</b>	<b>.007</b>	<b>.007</b>	<b>.60</b>	<b>7.2</b>	<b>6.0</b>	<b>13.8</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.1*</b>	<b>.103</b>	<b>.003*</b>	<b>.003*</b>	<b>.027*</b>	<b>3.49</b>	<b>2.0*</b>	<b>11.4</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.1*</b>	<b>.090</b>	<b>.001*</b>	<b>.002*</b>	<b>.068*</b>	<b>1.06</b>	<b>1.1*</b>	<b>1.1</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.1</b>	<b>.04</b>	<b>L.002</b>	<b>L.001</b>	<b>.003</b>	<b>2.2</b>	<b>1.</b>	<b>10.2</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.1</b>	<b>.04</b>	<b>L.002</b>	<b>L.001</b>	<b>.005</b>	<b>2.60</b>	<b>1.</b>	<b>10.6</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.1</b>	<b>.060</b>	<b>L.002</b>	<b>L.003</b>	<b>.010</b>	<b>3.60</b>	<b>2.</b>	<b>11.1</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.2</b>	<b>.130</b>	<b>L.003</b>	<b>.003</b>	<b>.030</b>	<b>4.15</b>	<b>2.0</b>	<b>12.2</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.3</b>	<b>.27</b>	<b>L.003</b>	<b>.005</b>	<b>.047</b>	<b>4.4</b>	<b>3.0</b>	<b>13.0</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	01L		56L	56L	06L	05L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79

ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0023 LAT. 53 D 2 M 30 S LONG. 118 D 5 M 15 S

UTM 11 427100E 5877200N  
JUN 13 1973 TO A DEC 03 1979

ATHABASCA RIVER AT HWY 16 BRIDGE  
BELOW CONFLUENCE WITH SNARING RIVER

		06105L BORON DISSOLVED	13332P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS)	0417	36(15)	6(0)	27(22)	14(13)	35(14)	13(13)	36(4)	27(25)	ECHANTILLONS(IND.)
LOW	0003	L.02	.012	L.001	L.010	L.01	L.04	L.04	L.002	MINIMUM
HIGH		.06	.95	.001	L.015	.15	L.05	2.2	.003	MAXIMUM
AVERAGE		.02*	.213	.0010*	.014*	.03*		.39*	.002*	MOYENNE
STD.DEV.		.01*	.369	.0000*	.002*	.03*		.51*	.000*	ECART-TYPE
PERCNT:10TH		L.02		L.001	L.010	L.01	L.04	L.04	L.002	10 <sup>e</sup> PERCNT
25TH		L.02	.027	L.001	.010	L.01	L.04	.05	L.002	25 <sup>e</sup>
MEDIAN 50TH		.02	.035	L.001	L.015	.01	L.05	.17	L.002	50 <sup>e</sup> MEDIANE
75TH		.03	.22	L.001	L.015	.04	L.05	.42	L.002	75 <sup>e</sup>
90TH		.04		.001	L.015	.05	L.05	1.20	L.002	90 <sup>e</sup>
SECONDARY CODE			05P				04L	04L		CODE DE SECOURS

		28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS)	0003	6(4)	34(14)	35(16)	33(32)	31(30)	6(0)		8(8)	ECHANTILLONS(IND.)
LOW	0417	L.002	L.001	L.001	L.0005	L.0005	.16		L.00	MINIMUM
HIGH		.005	.011	.024	L.005	.0005	.33		L.01	MAXIMUM
AVERAGE		.003*	.002*	.003*	.0006*	.0005*	.23			MOYENNE
STD.DEV.		.001*	.002*	.004*	.0008*	.0000*	.06			ECART-TYPE
PERCNT:10TH			L.001	L.001	L.0005	L.0005				10 <sup>e</sup> PERCNT
25TH		L.002	L.001	L.001	L.0005	L.0005	.19		L.00	25 <sup>e</sup>
MEDIAN 50TH		L.002	.001	.001	L.0005	L.0005	.21		L.01	50 <sup>e</sup> MEDIANE
75TH		.003	.002	.003	L.0005	L.0005	.28		L.01	75 <sup>e</sup>
90TH			.003	.005	L.0005	L.0005				90 <sup>e</sup>
SECONDARY CODE				04P	03L					CODE DE SECOURS

		48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	06535P PHENOLIC MATERIAL	06634P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
	SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PHENOL MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS)	0417	35(30)	35(25)	27(26)		35(30)	25(12)	25(11)	51(14)	ECHANTILLONS(IND.)
LOW	0003	L.001	L.0	L.02		L.001	L.001	L.001	L.05	MINIMUM
HIGH		.002	L.1	L.05		.006	.006	.019	.16	MAXIMUM
AVERAGE		.001*	.1*	.03*		.004*	.002*	.004*	.07*	MOYENNE
STD.DEV.		.000*	.0*	.01*		.001*	.002*	.004*	.02*	ECART-TYPE
PERCNT:10TH		L.001	L.0	L.02		L.001	L.001	L.001	L.05	10 <sup>e</sup> PERCNT
25TH		L.001	L.0	L.02		L.004	L.001	.001	L.05	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.0	L.02		L.004	.001	.002	.07	50 <sup>e</sup> MEDIANE
75TH		L.001	.1	L.05		L.004	.002	L.005	.07	75 <sup>e</sup>
90TH		.001	L.1	L.05		.004	.005	.010	.08	90 <sup>e</sup>
SECONDARY CODE				13P						CODE DE SECOURS

\* These statistics include flagged values: Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0023** LAT. **53 D 2 M 30 S** LONG. **118 D 5 M 15 S**UTM **11 427100 E 5877200 N**  
JUN 13, 1973 TO/A DEC 03, 1979ATHABASCA RIVER AT HWY 16 BRIDGE  
BELOW CONFLUENCE WITH SNARING RIVER,

		36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT.DENS.	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
	SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	NO/ML	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	0003	72(10)	72(10)	72(8)	16(2)	31(31)	28(11)	36(35)	31(31)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0417	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>L30.</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.002</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>650.</b>	<b>98.</b>	<b>86.</b>	<b>G3000.</b>	<b>L.001</b>	<b>.009</b>	<b>.001</b>	<b>L.002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>148.*</b>	<b>26.*</b>	<b>12.*</b>	<b>878.*</b>		<b>.002*</b>	<b>.001*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>127.*</b>	<b>23.*</b>	<b>14.*</b>	<b>959.*</b>		<b>.002*</b>	<b>.000*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>8.</b>	<b>1.</b>	<b>1.</b>	<b>110.</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.002</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>55.</b>	<b>6.</b>	<b>4.</b>	<b>168.</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>120.</b>	<b>25.</b>	<b>8.</b>	<b>510.</b>	<b>L.001</b>	<b>.001</b>	<b>L.001</b>	<b>L.002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>205.</b>	<b>37.</b>	<b>16.</b>	<b>1295.</b>	<b>L.001</b>	<b>.003</b>	<b>L.001</b>	<b>L.002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>290.</b>	<b>51.</b>	<b>27.</b>	<b>2500.</b>	<b>L.001</b>	<b>.004</b>	<b>L.001</b>	<b>L.002</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	0417	9(9)	31(31)	31(31)	31(31)	31(31)	31(31)	31(31)	31(31)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.004</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>			<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCLOL 1254 (PCB'S)	18161L AROCLOL 1248 (PCB'S)	18162L AROCLOL 1260 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	0417	11(11)	31(31)	9(9)	9(9)	9(9)	34(34)	34(34)	34(34)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	<b>L.2</b>	<b>L.01</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.002</b>	<b>L.002</b>	<b>L.005</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.2</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>	<b>L.06</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.2</b>	<b>L.01</b>				<b>L.002</b>	<b>L.002</b>	<b>L.005</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.2</b>	<b>L.01</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.002</b>	<b>L.002</b>	<b>L.005</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.2</b>	<b>L.01</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.002</b>	<b>L.002</b>	<b>L.005</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.2</b>	<b>L.012</b>	<b>L.004</b>	<b>L.002</b>	<b>L.009</b>	<b>L.03</b>	<b>L.02</b>	<b>L.055</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>L.2</b>	<b>L.012</b>				<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0024 LAT 53 D 8 M 24 S LONG. 117 D 58 M 33 S

UTM 11 434700E 5888100N  
AUG 30 1972 TO: A JAN 20 1976ROCKY RIVER AT HWY 16 BRIDGE ABOUT  
0.2 MILE ABOVE MOUTH JASPER NATIONAL

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
ID									
SAMPLES(FLAGS)	0417	28(0)	28(0)	25(0)	28(15)	29(0)	28(0)	28(0)	ECHANTILLONS(IND.)
LOW		265.	143.	137.	L5.	.5	7.6	99.8	MINIMUM
HIGH		501.	290.	265.	20.	2100.	8.4	154.	MAXIMUM
AVERAGE		389.	225.	207.2	7.*	101.4		125.9	MOYENNE
STD.DEV.		67.	42.	38.5	4.*	388.1		12.8	ECART-TYPE
PERCNT:10TH		304.	162.	148.	L5.	1.0	7.9	109.	10 <sup>e</sup> PERCNT
25TH		347.	190.	178.	L5.	1.8	8.0	115.5	25 <sup>e</sup>
MEDIAN 50TH		393.	228.	205.	L5.	4.5	8.2	127.5	50 <sup>e</sup> MEDIANE
75TH		446.	260.	235.	5.	30.0	8.3	134.0	75 <sup>e</sup>
90TH		486.	286.	255.	15.	170.	8.3	142.	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
ID									
SAMPLES(FLAGS)	0417	29(0)	29(0)	29(0)	25(0)	28(0)	28(0)	29(0)	ECHANTILLONS(IND.)
LOW		.4	.7	41.0	7.3	0.	122.	.2	26.0
HIGH		1.0	2.0	80.0	24.8	0.	188.	1.3	116.
AVERAGE		.6	1.4	57.31	15.4	0.	153.	.7	76.2
STD.DEV.		.2	.3	9.75	4.8	0.	16.	.3	25.5
PERCNT:10TH		.4	.8	44.7	8.8	0.	133.	.4	37.0
25TH		.5	1.2	51.5	11.7	0.	141.	.5	57.8
MEDIAN 50TH		.6	1.5	57.	15.5	0.	155.	.7	78.0
75TH		.7	1.6	63.	18.3	0.	163.	.8	93.0
90TH		.9	1.9	72.6	21.7	0.	173.	1.2	114.
SECONDARY CODE				03L			06L	04L 06L 01L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	
SUBM	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	O2 MG/L	
ID									
SAMPLES(FLAGS)	0417	27(3)	28(0)	25(24)	25(23)	29(12)	28(0)	29(7)	12(0)
LOW		L.1	.050	L.002	L.001	L.003	3.0	L.5	10.4
HIGH		1.2	1.40	.005	.007	.850	4.8	20.0	12.7
AVERAGE		.3*	.205	.002*	.002*	.071*	3.94	3.4*	11.5
STD.DEV.		.3*	.299	.001*	.001*	.189*	.45	4.6*	9
PERCNT:10TH		L.1	.07	L.002	L.001	L.003	3.3	L.5	10.6
25TH		.1	.080	L.002	L.001	L.005	3.60	1.	10.7
MEDIAN 50TH		.2	.110	L.002	L.001	.005	4.00	1.0	11.1
75TH		.3	.135	L.003	L.003	.015	4.35	4.0	12.4
90TH		.7	.650	L.003	L.003	.410	4.4	9.0	12.7

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0024** LAT. **53 D 8 M 24 S** LONG. **117 D 58 M 33 S**UTM **11 434700E 5888100 N**  
AUG 30, 1972 TO/A AUG 12, 1975ROCKY RIVER AT HWY 16 BRIDGE ABOUT  
0.2 MILE ABOVE MOUTH, JASPER NATIONAL

	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS) 0417	8(2)			9(9)	9(8)	16(12)	10(4)		ECHANTILLONS(IND.)
LOW	L.02			L.010	L.01	L.001	L.04		MINIMUM
HIGH	.06			L.015	.48	.31	5.70		MAXIMUM
AVERAGE	.03*				.06*	.064*	.65*		MOYENNE
STD.DEV.	.01*				.16*	.075*	1.78*		ECART-TYPE
PERCNT:10TH						.010	L.04		10 <sup>e</sup> PERCNT
25TH	.02*			L.010	L.01	L.040	L.04		25 <sup>e</sup>
MEDIAN 50TH	.04			L.010	L.01	L.050	.08		50 <sup>e</sup> MEDIANE
75TH	.04			L.015	L.01	L.050	.12		75 <sup>e</sup>
90TH						.170	2.97		90 <sup>e</sup>
SECONDARY CODE						04L	04L		CODE DE SECOURS

	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	
SAMPLES(FLAGS) 0417		9(7)	9(4)	6(5)	4(1)			9(9)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH		.009	.021	L.005	.0011			L.01	MAXIMUM
AVERAGE		.002*	.006*	.0013*	.0008*				MOYENNE
STD.DEV.		.003*	.007*	.0018*	.0003*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.001	L.001	L.0005	.0005*			L.00	25 <sup>e</sup>
MEDIAN 50TH		L.001	.005	L.0005	.0009			L.01	50 <sup>e</sup> MEDIANE
75TH		L.001	.009	.0007	.0011			L.01	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			04P	03L					CODE DE SECOURS

	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	80311P MERCURY EXTRBLE. HG UG/L	81301P THALLIUM EXTRBLE. TL MG/L	82302P LEAD EXTRBLE. PB MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06604P CYANIDE DISSOLVED CN MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS) 0417	9(7)	9(9)	8(8)		9(7)			29(1)	ECHANTILLONS(IND.)
LOW	L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH	.002	L.1	L.05		.005			.21	MAXIMUM
AVERAGE	.001*				.003*			.14*	MOYENNE
STD.DEV.	.000*				.002*			.04*	ECART-TYPE
PERCNT:10TH								.08	10 <sup>e</sup> PERCNT
25TH	L.001	L.0	L.05		L.001			.12	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.1	L.05		L.004			.15	50 <sup>e</sup> MEDIANE
75TH	L.001	L.1	L.05		L.004			.17	75 <sup>e</sup>
90TH								.19	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0024 LAT. 53 D 8 M 24 S LONG. 117 D 58 M 33 S

UTM 11 434700E 5888100 N  
AUG 30 1972 TO/A JAN 20 1976ROCKY RIVER AT HWY 16 BRIDGE ABOUT  
0.2 MILE ABOVE MOUTH JASPER NATIONAL

	36102F COLIFORMS TOTAL	36102F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT DENS NO./ML	18130L ALDRIN	18075L ALPHA BHC	18070L GAMMA BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO./DL	MF NO./DL	MF NO./DL		UG/L		UG/L		
SAMPLES(FLAGS) 0417				15(7)	9(9)	1(1)	9(9)	9(9)	ECHANTILLONS(IND.)
LOW				L30.	L.001	L.001	L.001	L.002	MINIMUM
HIGH				1070.	L.001	L.001	L.001	L.002	MAXIMUM
AVERAGE				155.					MOYENNE
STD.DEV.				282.					ECART-TYPE
PERCNT:10TH				L30.					10 <sup>e</sup> PERCNT
25TH				L30.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH				46.	L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH				91.	L.001		L.001	L.002	75 <sup>e</sup>
90TH				490.					90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DOE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L		UG/L	UG/L	
SAMPLES(FLAGS) 0417	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	9(9)	ECHANTILLONS(IND.)
LOW	L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB-S)	18161L AROCOR 1248 (PCB-S)	18162L AROCOR 1260 (PCB-S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L		UG/L		
SAMPLES(FLAGS) 0417	8(8)	9(9)	9(9)	9(9)	9(9)	8(8)	8(8)	8(8)	ECHANTILLONS(IND.)
LOW	L.2	L.01	L.004	L.001	L.006	L.03	L.02	L.055	MINIMUM
HIGH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0025** LAT. **53 D 10 M 15 S** LONG. **117 D 58 M 24 S**UTM **11 435000E 5891500 N**  
AUG 31, 1972 TO/À JAN 20, 1976ATHABASCA RIVER ABOUT 2.05 MILES  
BELOW DEVONA, JASPER NATIONAL PARK.

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0417	34(0)	34(0)	30(0)	33(21)	34(0)	34(0)	34(0)	34(0)	ECHANTILLONS(IND.)
LOW		200.	110.	103.	L5.	.6	7.5	78.	-.5	MINIMUM
HIGH		475.	270.	243.	25.	2500.	8.3	134.	.7	MAXIMUM
AVERAGE		298.	166.	157.3	7.*	89.6		102.9		MOYENNE
STD.DEV.		70.	41.	35.9	4.*	426.6		16.9		ECART-TYPE
PERCNT:10TH		207.	113.	105.0	L5.	1.3	7.8	78.8	-.1	10 <sup>e</sup> PERCNT
25TH		236.	133.	129.	L5.	2.2	8.0	89.7	.0	25 <sup>e</sup>
MEDIAN 50TH		295.	166.	162.5	L5.	5.3	8.0	104.0	.2	50 <sup>e</sup> MEDIANE
75TH		345.	190.	177.	5.	22.	8.2	113.	.3	75 <sup>e</sup>
90TH		378.	210.	203.0	10.	70.0	8.3	128.	.5	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0417	34(0)	34(0)	34(0)	30(0)	34(0)	34(0)	34(0)	34(0)	ECHANTILLONS(IND.)
LOW		.3	.3	29.0	6.2	0.	95.	.1	21.0	MINIMUM
HIGH		2.3	4.0	58.0	23.8	0.	163.	3.2	100.	MAXIMUM
AVERAGE		.6	1.5	41.59	12.5	0.	125.	.9	47.7	MOYENNE
STD.DEV.		.4	.7	9.32	4.2	0.	21.	.7	18.4	ECART-TYPE
PERCNT:10TH		.3	.8	31.0	7.7	0.	96.	.3	25.0	10 <sup>e</sup> PERCNT
25TH		.4	1.1	33.	9.3	0.	109.	.4	33.	25 <sup>e</sup>
MEDIAN 50TH		.5	1.6	41.45	11.9	0.	127.	.8	47.5	50 <sup>e</sup> MEDIANE
75TH		.6	1.9	50.7	15.6	0.	138.	1.2	57.3	75 <sup>e</sup>
90TH		.8	2.0	56.0	18.3	0.	156.	1.4	67.0	90 <sup>e</sup>
SECONDARY CODE										03L 06L 06L 01L 04L CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO O2 MG/L	
SAMPLES(FLAGS)	0417	31(5)	34(0)	30(28)	29(24)	32(8)	33(0)	32(7)	15(0)	ECHANTILLONS(IND.)
LOW		L.1	.030	L.002	L.001	L.003	2.5	L.5	9.8	MINIMUM
HIGH		.5	1.6	.037	.042	.270	4.6	7.0	13.6	MAXIMUM
AVERAGE		.2*	.248	.003*	.003*	.021*	3.71	2.2*	11.4	MOYENNE
STD.DEV.		.1*	.365	.006*	.008*	.048*	.58	1.7*	1.0	ECART-TYPE
PERCNT:10TH		L.1	.05	L.002	L.001	L.005	2.9	L.5	10.2	10 <sup>e</sup> PERCNT
25TH		.1	.060	L.002	L.001	L.005	3.2	1.0	10.7	25 <sup>e</sup>
MEDIAN 50TH		.2	.120	L.002	L.001	.007	3.9	2.0	11.4	50 <sup>e</sup> MEDIANE
75TH		.3	.240	L.003	L.003	.011	4.2	3.0	11.9	75 <sup>e</sup>
90TH		.4	.900	L.003	.003	.047	4.3	4.0	12.5	90 <sup>e</sup>
SECONDARY CODE										01L 56L 59L 56L 06L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

00AL07AA0025 53 10 15 117 58 24

11 435000 5891500  
AUG 31 1972 TO/A AUG 12 1975ATHABASCA RIVER ABOUT 2.05 MILES  
BELOW DEVONA JASPER NATIONAL PARK

	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	
SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS) 0417	9(2)			10(10)	10(4)	20(17)	11(1)		ECHANTILLONS(IND.)
LOW	L.02			L.010	L.01	L.001	L.04		MINIMUM
HIGH	.06			L.015	.33	.13	4.40		MAXIMUM
AVERAGE	.03*				.05*	.041*	.68*		MOYENNE
STD.DEV.	.01*				.10*	.028*	1.28*		ECART-TYPE
PERCNT:10TH				L.010	L.01	L.001	.06		10 <sup>e</sup> PERCNT
25TH	.02			L.010	L.01	.030*	.12		25 <sup>e</sup>
MEDIAN 50TH	.03			L.010	.01	L.050	.21		50 <sup>e</sup> MEDIANE
75TH	.04			L.015	.02	L.050	.68		75 <sup>e</sup>
90TH				L.015	.19	L.050	1.20		90 <sup>e</sup>
SECONDARY CODE						04L	04L		CODE DE SECOURS

	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	
SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS) 0417		10(6)	10(6)	7(7)	4(3)			10(10)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH		.011	.021	L.005	.0012			L.01	MAXIMUM
AVERAGE		.002*	.006*		.0007*				MOYENNE
STD.DEV.		.003*	.007*		.0004*				ECART-TYPE
PERCNT:10TH		L.001	L.001					L.00	10 <sup>e</sup> PERCNT
25TH		L.001	L.001	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH		L.001	.001*	L.0005	L.0005			L.01	50 <sup>e</sup> MEDIANE
75TH		.002	L.01	L.005	.0008*			L.01	75 <sup>e</sup>
90TH		.007	.016					L.01	90 <sup>e</sup>
SECONDARY CODE			04P	03L					CODE DE SECOURS

	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PHENOL MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS) 0417	10(7)	10(10)	9(9)		10(8)			34(3)	ECHANTILLONS(IND.)
LOW	L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH	.002	L.1	L.05		.010			.21	MAXIMUM
AVERAGE	.001*				.003*			.11*	MOYENNE
STD.DEV.	.000*				.003*			.04*	ECART-TYPE
PERCNT:10TH	L.001	L.0			L.001			.06	10 <sup>e</sup> PERCNT
25TH	L.001	L.0	L.05		L.001			.08	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.1	L.05		L.001			.10	50 <sup>e</sup> MEDIANE
75TH	.001	L.1	L.05		L.004			.13	75 <sup>e</sup>
90TH	.002	L.1			.007			.15	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0025** LAT. **53 D 10 M 15 S** LONG. **117 D 58 M 24 S**

UTM **11 435000E 5891500 N**  
AUG 31, 1972 TO/À JAN 20, 1976

ATHABASCA RIVER ABOUT 2.05 MILES  
BELOW DEVONA, JASPER NATIONAL PARK.

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT.DENS. NO/ML	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL		UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417				17(0)	11(11)	1(0)	11(10)	11(11)	<b>ECHANTILLONS(IND.)</b>
LOW				35.	L.001	.005	L.001	L.002	MINIMUM
HIGH				2800.	L.001	.005	.001	L.002	MAXIMUM
AVERAGE				503.			.001*		MOYENNE
STD.DEV.				716.			.000*		ECART-TYPE
PERCNT:10TH				50.	L.001		L.001	L.002	10 <sup>e</sup> PERCNT
25TH				64.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH				110.	L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH				740.	L.001		L.001	L.002	75 <sup>e</sup>
90TH				1400.	L.001		L.001	L.002	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417	11(11)	11(11)	11(11)	11(11)	11(11)	11(11)	11(11)	11(11)	<b>ECHANTILLONS(IND.)</b>
LOW	L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	10 <sup>e</sup> PERCNT
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417	10(9)	11(11)	11(11)	11(11)	11(11)	8(8)	8(8)	7(7)	<b>ECHANTILLONS(IND.)</b>
LOW	L.2	L.01	L.004	L.001	L.006	L.03	L.02	L.055	MINIMUM
HIGH	.9	L.012	L.004	L.002	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE	.270*								MOYENNE
STD.DEV.	.221*								ECART-TYPE
PERCNT:10TH	L.200	L.012	L.004	L.002	L.009				10 <sup>e</sup> PERCNT
25TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	75 <sup>e</sup>
90TH	.550*	L.012	L.004	L.002	L.009				90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0026 LAT 52 D 51 M 30 S LONG 118 D 15 M 39 S

UTM 11 415100 5857000

APR 17 1974 TO A JAN 20 1976

MIETTE RIVER ABOVE GEIKIE JASPER  
NATIONAL PARK ALBERTA

		32041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD)	
	SUBM ID	USIE/CM MG/L	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0417	16(0)	16(0)	12(0)	16(8)	16(0)	16(0)	16(0)	16(0)	ECHANTILLONS(IND.)
LOW		71.	37.	36.0	L5.	.3	7.4	27.0	-1.5	MINIMUM
HIGH		227.	121.	117.	50.	65.	8.2	80.2	-.4	MAXIMUM
AVERAGE		159.	86.	81.7	12.*	9.8		56.5		MOYENNE
STD.DEV.		50.	27.	27.4	14.*	16.4		17.4		ECART-TYPE
PERCNT:10TH		75.	40.	36.0	L5.	.7	7.4	28.0	-1.4	10 <sup>e</sup> PERCNT
25TH		129.	68.	66.0	L5.	1.2	7.5	42.2	-.9	25 <sup>e</sup>
MEDIAN 50TH		159.	94.	84.5	5.*	4.0	7.6	57.8	-.7	50 <sup>e</sup> MEDIANE
75TH		201.	109.	103.0	10.	9.4	7.7	71.8	-.5	75 <sup>e</sup>
90TH		227.	115.	114.	40.	23.0	8.0	78.0	-.5	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONAT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0417	16(0)	16(0)	16(0)	12(0)	16(0)	16(0)	16(0)	16(0)	ECHANTILLONS(IND.)
LOW		.2	.4	9.3	2.7	0.	33.	.2	7.5	MINIMUM
HIGH		.8	3.7	28.1	12.0	0.	98.	3.6	33.	MAXIMUM
AVERAGE		.4	1.6	19.37	7.5	0.	69.	.8	22.7	MOYENNE
STD.DEV.		.2	.8	6.25	3.1	0.	21.	.8	8.2	ECART-TYPE
PERCNT:10TH		.2	.5	10.0	3.1	0.	34.	.2	9.6	10 <sup>e</sup> PERCNT
25TH		.2	1.0	14.65	5.4	0.	51.	.3	16.0	25 <sup>e</sup>
MEDIAN 50TH		.3	1.6	19.50	8.1	0.	70.	.5	26.0	50 <sup>e</sup> MEDIANE
75TH		.5	2.0	24.00	9.9	0.	88.	1.0	29.0	75 <sup>e</sup>
90TH		.8	2.5	28.	11.4	0.	95.	1.5	31.	90 <sup>e</sup>
SECONDARY CODE				03L				06L	04L 06L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	O2 MG/L	
SAMPLES(FLAGS)	0417	15(5)	16(0)	12(12)	12(11)	16(9)	16(0)	16(3)	14(0)	ECHANTILLONS(IND.)
LOW		L.1	.02	L.002	L.001	L.003	2.1	L0.	9.6	MINIMUM
HIGH		.3	1.60	L.005	.009	.031	4.8	6.0	12.4	MAXIMUM
AVERAGE		.2*	.167		.003*	.007*	3.42	2.9*	11.2	MOYENNE
STD.DEV.		.1*	.384		.002*	.008*	.83	1.7*	.9	ECART-TYPE
PERCNT:10TH		L.1	.02	L.002	L.001	L.003	2.2	L0.	10.0	10 <sup>e</sup> PERCNT
25TH		L.1	.030	L.002	L.003	L.003	2.65	2.0	10.2	25 <sup>e</sup>
MEDIAN 50TH		.1	.085	L.003	L.003	L.003	3.65	2.0	11.4	50 <sup>e</sup> MEDIANE
75TH		.2	.110	L.003	L.003	.008	4.00	4.5	11.9	75 <sup>e</sup>
90TH		.3	.150	L.003	L.005	.015	4.3	6.	12.2	90 <sup>e</sup>
SECONDARY CODE		01L		56L	56L	06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0026** LAT. **52 D 51 M 30 S** LONG. **118 D 15 M 39 S**UTM **11 415100E 5857000 N**  
APR 17, 1974 TO/A AUG 11, 1975MIETTE RIVER ABOVE GEIKIE, JASPER  
NATIONAL PARK, ALBERTA

	SUBM ID	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBL. AL MG/L	23302P VANADIUM EXTRBL. V MG/L	24302P CHROMIUM EXTRBL. CR MG/L	25304P MANGANESE EXTRBL. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBL. FE MG/L	27302P COBALT EXTRBL. CO MG/L	
SAMPLES(FLAGS)	0417	5(2)			5(5)	5(0)	7(0)	6(0)		ECHANTILLONS(IND.)
LOW		L.02			L.010	.01	.05	.04		MINIMUM
HIGH		.05			L.015	.10	.41	.86		MAXIMUM
AVERAGE		.03*				.05	.141	.29		MOYENNE
STD.DEV.		.01*				.03	.121	.29		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.02			L.010	.03	.08	.14		25 <sup>e</sup>
MEDIAN 50TH		.02			L.015	.04	.10	.19		50 <sup>e</sup> MEDIANE
75TH		.03			L.015	.05	.13	.30		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE							04L	04L		CODE DE SECOURS

	SUBM ID	28302P NICKEL EXTRBL. NI MG/L	29305P COPPER EXTRBL. CU MG/L	30305P ZINC EXTRBL. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	38301P STRONTIUM EXTRBL. SR MG/L	42301P MOLYBDENUM EXTRBL. MO MG/L	47301P SILVER EXTRBL. AG MG/L	
SAMPLES(FLAGS)	0417		5(3)	5(1)	4(4)	4(4)			5(5)	ECHANTILLONS(IND.)
LOW			L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH			.011	.007	L.0005	L.0005			L.01	MAXIMUM
AVERAGE			.003*	.002*						MOYENNE
STD.DEV.			.004*	.003*						ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			L.001	.001	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH			L.001	.001	L.0005	L.0005			L.00	50 <sup>e</sup> MEDIANE
75TH			.002	.002	L.0005	L.0005			L.01	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

	SUBM ID	48302P CADMIUM EXTRBL. CD MG/L	56301P BARIUM EXTRBL. BA MG/L	80311P MERCURY EXTRBL. HG UG/L	81301P THALLIUM EXTRBL. TL MG/L	82302P LEAD EXTRBL. PB MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06604P CYANIDE DISSOLVED CN MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0417	5(2)	5(5)	5(5)		5(4)			16(14)	ECHANTILLONS(IND.)
LOW		L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH		.004	L.1	L.05		.005			.06	MAXIMUM
AVERAGE		.002*				.003*			.05*	MOYENNE
STD.DEV.		.001*				.002*			.00*	ECART-TYPE
PERCNT:10TH									L.05	10 <sup>e</sup> PERCNT
25TH		L.001	L.0	L.05		L.001			L.05	25 <sup>e</sup>
MEDIAN 50TH		.001	L.0	L.05		L.004			L.05	50 <sup>e</sup> MEDIANE
75TH		.001	L.1	L.05		L.004			L.05	75 <sup>e</sup>
90TH									.05	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0026 LAT. 52 D 51 M 30 S LONG. 118 D 15 M 39 S

UTM 11 415100E 5857000 N  
MAY 22, 1974 TO/A JAN 20, 1976

MIETTE RIVER ABOVE GEIKIE JASPER  
NATIONAL PARK ALBERTA

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT DENS NO./ML	18130L ALDRIN UG/L	18075L ALPHA- BHC UG/L	18070L GAMMA- BHC (LINDANE) UG/L	18150L HEOD (DIELDRIN) UG/L	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL						
SAMPLES(FLAGS) 0417				11(7)	5(5)	1(0)	5(5)	5(5)	ECHANTILLONS(IND.)
LOW				L30.	L.001	.003	L.001	L.002	MINIMUM
HIGH				2700.	L.001	.003	L.001	L.002	MAXIMUM
AVERAGE				299.*					MOYENNE
STD.DEV.				798.*					ECART-TYPE
PERCNT:10TH				L30.					10 <sup>e</sup> PERCNT
25TH				L30.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH				L30.	L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH				150.	L.001		L.001	L.002	75 <sup>e</sup>
90TH				190.					90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	ECHANTILLONS(IND.)
LOW	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCLOR 1254 (PCB'S)	18161L AROCLOR 1248 (PCB'S)	18162L AROCLOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	ECHANTILLONS(IND.)
LOW	L.2	L.01	L.004	L.002	L.009	L.03	L.02	L.055	MINIMUM
HIGH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0027** LAT. **52 D 52 M 12 S** LONG. **117 D 48 M 45 S**

UTM **11 445300E 5857900 N**  
APR 17, 1974 TO/À OCT 21, 1976

MALIGNE RIVER AT OUTLET OF MEDICINE  
LAKE, JASPER NATIONAL PARK, ALBERTA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b> 0417	31(0)	16(0)	12(0)	31(27)	31(0)	31(0)	16(0)	16(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>135.</b>	<b>74.</b>	<b>72.0</b>	<b>L5.</b>	<b>.1</b>	<b>7.6</b>	<b>63.0</b>	<b>-.6</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>313.</b>	<b>170.</b>	<b>163.</b>	<b>20.</b>	<b>23.0</b>	<b>8.4</b>	<b>145.</b>	<b>.4</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>214.</b>	<b>131.</b>	<b>126.8</b>	<b>5.*</b>	<b>2.0</b>		<b>100.8</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>44.</b>	<b>26.</b>	<b>28.8</b>	<b>3.*</b>	<b>4.1</b>		<b>20.0</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>154.</b>	<b>88.</b>	<b>83.0</b>	<b>L5.</b>	<b>.2</b>	<b>7.9</b>	<b>65.0</b>	<b>-.6</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>181.</b>	<b>114.</b>	<b>108.0</b>	<b>L5.</b>	<b>.5</b>	<b>8.0</b>	<b>91.9</b>	<b>-.1</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>217.</b>	<b>137.</b>	<b>135.5</b>	<b>L5.</b>	<b>.8</b>	<b>8.1</b>	<b>101.5</b>	<b>.1</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>236.</b>	<b>144.</b>	<b>147.0</b>	<b>L5.</b>	<b>1.5</b>	<b>8.2</b>	<b>109.5</b>	<b>.3</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>265.</b>	<b>163.</b>	<b>158.</b>	<b>5.</b>	<b>4.1</b>	<b>8.2</b>	<b>120.</b>	<b>.4</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0417	16(0)	16(0)	16(0)	12(0)	16(0)	16(0)	16(0)	16(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.4</b>	<b>.8</b>	<b>17.0</b>	<b>6.2</b>	<b>0.</b>	<b>77.</b>	<b>.1</b>	<b>9.1</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.2</b>	<b>1.7</b>	<b>41.0</b>	<b>15.3</b>	<b>0.</b>	<b>177.</b>	<b>1.0</b>	<b>34.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.6</b>	<b>1.3</b>	<b>32.62</b>	<b>10.7</b>	<b>0.</b>	<b>123.</b>	<b>.4</b>	<b>24.6</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.3</b>	<b>.3</b>	<b>6.98</b>	<b>2.7</b>	<b>0.</b>	<b>24.</b>	<b>.3</b>	<b>6.3</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.4</b>	<b>.8</b>	<b>23.0</b>	<b>7.2</b>	<b>0.</b>	<b>79.</b>	<b>.2</b>	<b>16.1</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.5</b>	<b>1.1</b>	<b>28.00</b>	<b>9.0</b>	<b>0.</b>	<b>112.</b>	<b>.2</b>	<b>21.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.5</b>	<b>1.4</b>	<b>33.50</b>	<b>10.2</b>	<b>0.</b>	<b>124.</b>	<b>.3</b>	<b>26.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.7</b>	<b>1.5</b>	<b>39.50</b>	<b>13.0</b>	<b>0.</b>	<b>133.</b>	<b>.7</b>	<b>28.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.2</b>	<b>1.7</b>	<b>40.1</b>	<b>13.5</b>	<b>0.</b>	<b>146.</b>	<b>.9</b>	<b>30.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE			03L				06L	06L 04L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO O2 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0417	29(11)	25(0)	12(12)	12(12)	31(17)	16(0)	16(3)	14(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.1</b>	<b>.03</b>	<b>L.002</b>	<b>L.001</b>	<b>L.003</b>	<b>2.6</b>	<b>L0.</b>	<b>9.2</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.3</b>	<b>.660</b>	<b>L.003</b>	<b>L.003</b>	<b>.02</b>	<b>4.6</b>	<b>4.</b>	<b>12.7</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.1*</b>	<b>.105</b>			<b>.005*</b>	<b>3.74</b>	<b>2.1*</b>	<b>10.8</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.1*</b>	<b>.127</b>			<b>.004*</b>	<b>.57</b>	<b>.9*</b>	<b>1.1</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.1</b>	<b>.04</b>	<b>L.002</b>	<b>L.001</b>	<b>L.003</b>	<b>2.9</b>	<b>L0.</b>	<b>9.4</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.1</b>	<b>.04</b>	<b>L.002</b>	<b>L.002</b>	<b>L.003</b>	<b>3.40</b>	<b>1.5</b>	<b>9.8</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.1</b>	<b>.05</b>	<b>L.003</b>	<b>L.003</b>	<b>L.003</b>	<b>3.80</b>	<b>2.0</b>	<b>11.1</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.2</b>	<b>.13</b>	<b>L.003</b>	<b>L.003</b>	<b>.005</b>	<b>4.15</b>	<b>3.0</b>	<b>11.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.2</b>	<b>.18</b>	<b>L.003</b>	<b>L.003</b>	<b>.007</b>	<b>4.4</b>	<b>3.</b>	<b>12.1</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	01L		56L	56L	06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0027 LAT 52 D 52 M 12 S LONG 117 D 48 M 45 S

UTM 11 445300E 5857900N  
APR 17 1974 TO A AUG 11 1975MALIGNÉ RIVER AT OUTLET OF MEDICINE  
LAKE JASPER NATIONAL PARK ALBERTA

	05105L BORON DISSOLVED	13302P ALUMINIUM EXTRBL	23302P VANADIUM EXTRBL	24302P CHROMIUM EXTRBL	25304P MANGANESE EXTRBL	26302L IRON DISSOLVED	26304P IRON EXTRBL	27302P COBALT EXTRBL	
SUBM	B	AL	V	CR	MN	FE	FE	CO	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0417	5(2)			5(5)	5(4)	7(7)	6(5)		ECHANTILLONS(IND.)
LOW	L.02			L.010	L.01	L.04	L.04		MINIMUM
HIGH	.07			L.015	.02	L.05	.42		MAXIMUM
AVERAGE	.03*				.01*		.10*		MOYENNE
STD.DEV.	.02*				.00*		.16*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.02			L.015	L.01	L.04	L.04		25 <sup>e</sup>
MEDIAN 50TH	.03			L.015	L.01	L.04	L.04		50 <sup>e</sup> MEDIANE
75TH	.03			L.015	L.01	L.05	L.04		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE						04L	04L		CODE DE SECOND.

	28302P NICKEL EXTRBL	29305P COPPER EXTRBL	30305P ZINC EXTRBL	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL	42301P MOLYBDENUM EXTRBL	47301P SILVER EXTRBL	
SUBM	NI	CU	ZN	AS	SE	SR	MO	AG	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0417		5(3)	5(1)	5(5)	4(4)			5(5)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH		.019	.007	L.0005	L.0005			L.01	MAXIMUM
AVERAGE		.005*	.003*						MOYENNE
STD.DEV.		.008*	.003*						ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.001	.001	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH		L.001	.001	L.0005	L.0005			L.00	50 <sup>e</sup> MEDIANE
75TH		.002	.006	L.0005	L.0005			L.00	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOND.

	48302P CADMIUM EXTRBL	56301P BARIUM EXTRBL	80311P MERCURY EXTRBL	81301P THALLIUM EXTRBL	82302P LEAD EXTRBL	06305P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
SUBM	CD	BA	HG	TL	PB	PHENOL	CN	F	
ID	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0417	5(4)	5(3)	5(5)		5(5)			16(6)	ECHANTILLONS(IND.)
LOW	L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH	.004	L.1	L.05		L.004			.09	MAXIMUM
AVERAGE	.002*	.1*						.06*	MOYENNE
STD.DEV.	.001*	.0*						.01*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.001	L.0	L.05		L.004			L.05	25 <sup>e</sup>
MEDIAN 50TH	L.001	.1	L.05		L.004			.06	50 <sup>e</sup> MEDIANE
75TH	L.001	.1	L.05		L.004			.07	75 <sup>e</sup>
90TH								.07	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOND.

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0027** LAT. **52 D 52 M 12 S** LONG. **117 D 48 M 45 S**

UTM **11 445300E 5857900 N**  
MAY 22, 1974 TO/A OCT 21, 1976

MALIGNE RIVER AT OUTLET OF MEDICINE  
LAKE, JASPER NATIONAL PARK, ALBERTA

		36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT.DENS. NO/ML	18130L ALDRIN UG/L	18075L ALPHA- BHC UG/L	18070L GAMMA- BHC (LINDANE) UG/L	18150L HEOD (DIELDRIN) UG/L	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL							
<b>SAMPLES(FLAGS)</b> 0417	25(11)	25(23)	25(15)	10(9)	5(5)	1(0)	5(5)	5(5)		<b>ECHANTILLONS(IND.)</b>
LOW	L1.	L1.	L1.	L30.	L.001	.001	L.001	L.002		<b>MINIMUM</b>
HIGH	27.	2.	14.	79.	L.001	.001	L.001	L.002		<b>MAXIMUM</b>
AVERAGE	4.*	1.*	2.*	35.*						<b>MOYENNE</b>
STD.DEV.	6.*	0.*	3.*	15.*						<b>ECART-TYPE</b>
PERCNT:10TH	L1.	L1.	L1.	L30.						<b>10<sup>e</sup> PERCNT</b>
25TH	L1.	L1.	L1.	L30.	L.001		L.001	L.002		<b>25<sup>e</sup></b>
MEDIAN 50TH	1.	L1.	L1.	L30.	L.001		L.001	L.002		<b>50<sup>e</sup> MEDIANE</b>
75TH	4.	L1.	1.	L30.	L.001		L.001	L.002		<b>75<sup>e</sup></b>
90TH	7.	L1.	3.	54.*						<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L		
<b>SAMPLES(FLAGS)</b> 0417	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	<b>ECHANTILLONS(IND.)</b>
LOW	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.001	L.002	<b>MINIMUM</b>
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.001	L.002	<b>MAXIMUM</b>
AVERAGE										<b>MOYENNE</b>
STD.DEV.										<b>ECART-TYPE</b>
PERCNT:10TH										<b>10<sup>e</sup> PERCNT</b>
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.001	L.002	<b>25<sup>e</sup></b>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.001	L.002	<b>50<sup>e</sup> MEDIANE</b>
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.001	L.002	<b>75<sup>e</sup></b>
90TH										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOLOR 1254 (PCB'S)	18161L AROCOLOR 1248 (PCB'S)	18162L AROCOLOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0417	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	<b>ECHANTILLONS(IND.)</b>
LOW	L.1	L.01	L.004	L.002	L.009	L.03	L.02	L.02	L.055	<b>MINIMUM</b>
HIGH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.06		<b>MAXIMUM</b>
AVERAGE										<b>MOYENNE</b>
STD.DEV.										<b>ECART-TYPE</b>
PERCNT:10TH										<b>10<sup>e</sup> PERCNT</b>
25TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055		<b>25<sup>e</sup></b>
MEDIAN 50TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055		<b>50<sup>e</sup> MEDIANE</b>
75TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055		<b>75<sup>e</sup></b>
90TH										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0028 LAT. 52 D 53 M 0 S LONG. 118 D 22 M 55 S

UTM 11 407000E 5860000 N  
JUN 02 1976 TO/A OCT 22 1976

MIETTE RIVER BELOW DECOIGNE WARDEN  
STATION JASPER NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL	07166L NITROGEN DISSOLVED NO3 & NO2	
	USIE CM	USIE CM	REL. UNITS	JTU	PH UNITS	PH UNITS	MG L	MG L	
SAMPLES(FLAGS) 0417	15(0)	2(0)	15(10)	15(0)	15(0)	3(0)	15(9)	9(0)	ECHANTILLONS(IND.)
LOW	52.	52.	L5.	1.2	7.4	7.4	L.1	.01	MINIMUM
HIGH	107.	60.	20.	9.0	7.9	8.2	.3	.02	MAXIMUM
AVERAGE	84.	56.	7.*	3.4			.1*	.016	MOYENNE
STD.DEV.	19.	6.	4.*	2.3			.1*	.005	ECART-TYPE
PERCNT:10TH	61.		L5.	1.3	7.5		L.1		10 <sup>e</sup> PERCNT
25TH	63.		L5.	1.7	7.5		L.1	.01	25 <sup>e</sup>
MEDIAN 50TH	85.	56.	L5.	2.7	7.6	8.1	L.1	.02	50 <sup>e</sup> MEDIANE
75TH	102.		5.	4.5	7.6		.2	.02	75 <sup>e</sup>
90TH	105.		10.	8.0	7.7		.3		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF	36012F COLIFORMS FECAL MF	36102F FECAL STREP. MF	
	MG/L	NO/DL	NO/DL	NO/DL	
SAMPLES(FLAGS) 0417	15(4)	25(3)	25(15)	25(7)	ECHANTILLONS(IND.)
LOW	L.003	L1.	L1.	L1.	MINIMUM
HIGH	.024	44.	16.	22.	MAXIMUM
AVERAGE	.007*	15.*	2.*	4.*	MOYENNE
STD.DEV.	.006*	13.*	4.*	5.*	ECART-TYPE
PERCNT:10TH	L.003	L1.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	L.003	2.	L1.	L1.	25 <sup>e</sup>
MEDIAN 50TH	.004	15.	L1.	2.	50 <sup>e</sup> MEDIANE
75TH	.009	17.	1.	4.	75 <sup>e</sup>
90TH	.016	41.	9.	11.	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0029** LAT. **52 D 53 M 0 S** LONG. **118 D 23 M 50 S**

UTM **11 406000E 5860000 N**  
JUN 02, 1976 TO/A OCT 22, 1976

MIETTE RIVER ABOVE DECOIGNE WARDEN  
STATION JASPER NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS)</b> 0417	14(0)	3(0)	15(9)	15(0)	15(0)	3(0)	15(8)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>53.</b>	<b>52.</b>	<b>L5.</b>	<b>1.0</b>	<b>7.3</b>	<b>7.5</b>	<b>L.1</b>	<b>.01</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>108.</b>	<b>59.</b>	<b>20.</b>	<b>12.</b>	<b>8.0</b>	<b>8.4</b>	<b>.3</b>	<b>.03</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>83.</b>	<b>57.</b>	<b>6.*</b>	<b>3.5</b>			<b>.1*</b>	<b>.018</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>19.</b>	<b>4.</b>	<b>4.*</b>	<b>3.0</b>			<b>.1*</b>	<b>.007</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>61.</b>		<b>L5.</b>	<b>1.2</b>	<b>7.4</b>		<b>L.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>64.</b>		<b>L5.</b>	<b>1.8</b>	<b>7.5</b>		<b>L.1</b>	<b>.01</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>85.</b>	<b>59.</b>	<b>L5.</b>	<b>2.5</b>	<b>7.6</b>	<b>8.3</b>	<b>L.1</b>	<b>.02</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>102.</b>		<b>5.</b>	<b>4.8</b>	<b>7.7</b>		<b>.1</b>	<b>.02</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>105.</b>		<b>10.</b>	<b>8.5</b>	<b>7.7</b>		<b>.2</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
SUBM ID					
<b>SAMPLES(FLAGS)</b> 0417	15(4)	25(2)	25(12)	25(11)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.020</b>	<b>45.</b>	<b>28.</b>	<b>G120.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.007*</b>	<b>15.*</b>	<b>3.*</b>	<b>7.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.005*</b>	<b>12.*</b>	<b>6.*</b>	<b>24.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.003</b>	<b>1.</b>	<b>L1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.003</b>	<b>7.</b>	<b>L1.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.005</b>	<b>13.</b>	<b>1.</b>	<b>1.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.008</b>	<b>20.</b>	<b>2.</b>	<b>3.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.016</b>	<b>35.</b>	<b>5.</b>	<b>8.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0030 LAT. 52 D 51 M 30 S LONG. 118 D 8 M 40 S

UTM 11 423000E 5856800N  
JUN 02 1976 TO/A OCT 22 1976MIETTE RIVER APPROXIMATELY 4KM  
ABOVE HWY 16 ROAD CROSSING

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N	07106L NITROGEN DISSOLVED NO3 & NO2 N	
SUBM ID	USIE CM	USIE CM	REL UNITS	JTU	PH UNITS	PH UNITS	MG L	MG L	
SAMPLES(FLAGS) 0417	15(0)	3(0)	15(6)	15(0)	15(0)	3(0)	15(9)	9(0)	ECHANTILLONS(IND.)
LOW	76.	73.	L5.	1.5	7.4	7.3	L1	.02	MINIMUM
HIGH	165.	88.	100.	60.	7.9	8.2	.4	.02	MAXIMUM
AVERAGE	119.	82.	13.*	10.1			.1*	.020	MOYENNE
STD.DEV.	32.	8.	24.*	14.9			.1*	.000	ECART-TYPE
PERCNT:10TH	89.		L5.	2.1	7.4		L1		10 <sup>e</sup> PERCNT
25TH	90.		L5.	2.4	7.7		L1	.02	25 <sup>e</sup>
MEDIAN 50TH	116.	86.	5.	7.2	7.8	8.0	L1	.02	50 <sup>e</sup> MEDIANE
75TH	157.		10.	8.5	7.9		.2	.02	75 <sup>e</sup>
90TH	163.		10.	23.	7.9		.3		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF	36012F COLIFORMS FECAL MF	36102F FECAL STREP. MF	
SUBM ID	MG L	NO DL	NO DL	NO DL	
SAMPLES(FLAGS) 0417	15(4)	25(2)	25(8)	25(7)	ECHANTILLONS(IND.)
LOW	L.003	L1.	L1.	L1.	MINIMUM
HIGH	.07	G120.	G120.	G120.	MAXIMUM
AVERAGE	.014*	22.*	8.*	10.*	MOYENNE
STD.DEV.	.018*	24.*	24.*	24.*	ECART-TYPE
PERCNT:10TH	L.003	4.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	L.003	10.	L1.	1.	25 <sup>e</sup>
MEDIAN 50TH	.008	15.	2.	2.	50 <sup>e</sup> MEDIANE
75TH	.013	26.	4.	10.	75 <sup>e</sup>
90TH	.039	46.	6.	15.	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0031** LAT. **52 D 43 M 45 S** LONG. **117 D 38 M 45 S**UTM **11 456400E 5842000 N**  
JUN 01, 1976 TO/A OCT 21, 1976MALIGNE RIVER AT OUTLET OF MALIGNE  
LAKE JASPER NATIONAL PARK ALBERTA

		02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N	07106L NITROGEN DISSOLVED NO3 & NO2 N	
	SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>15(0)</b>	<b>3(0)</b>	<b>15(15)</b>	<b>15(0)</b>	<b>15(0)</b>	<b>3(0)</b>	<b>15(9)</b>	<b>9(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>158.</b>	<b>153.</b>	<b>L5.</b>	<b>.6</b>	<b>8.1</b>	<b>8.3</b>	<b>L.1</b>	<b>.04</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>177.</b>	<b>169.</b>	<b>L5.</b>	<b>2.3</b>	<b>8.2</b>	<b>8.4</b>	<b>.4</b>	<b>.05</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>167.</b>	<b>162.</b>		<b>1.4</b>			<b>.1*</b>	<b>.043</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>6.</b>	<b>8.</b>		<b>.5</b>			<b>.1*</b>	<b>.005</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>159.</b>		<b>L5.</b>	<b>.7</b>	<b>8.1</b>		<b>L.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>163.</b>		<b>L5.</b>	<b>1.0</b>	<b>8.1</b>		<b>L.1</b>	<b>.04</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>166.</b>	<b>164.</b>	<b>L5.</b>	<b>1.4</b>	<b>8.1</b>	<b>8.3</b>	<b>L.1</b>	<b>.04</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>172.</b>		<b>L5.</b>	<b>1.8</b>	<b>8.2</b>		<b>.1</b>	<b>.05</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>176.</b>		<b>L5.</b>	<b>2.1</b>	<b>8.2</b>		<b>.2</b>		<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

		15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF	36012F COLIFORMS FECAL MF	36102F FECAL STREP. MF	
	SUBM ID	MG/L	NO/DL	NO/DL	NO/DL	
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>15(6)</b>	<b>25(13)</b>	<b>25(24)</b>	<b>25(16)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.010</b>	<b>109.</b>	<b>2.</b>	<b>4.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.004*</b>	<b>9.*</b>	<b>1.*</b>	<b>1.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.002*</b>	<b>22.*</b>	<b>0.*</b>	<b>1.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.005</b>	<b>6.</b>	<b>L1.</b>	<b>1.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.010</b>	<b>18.</b>	<b>L1.</b>	<b>2.</b>	<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0032 LAT. 52 D 45 M 5 S LONG. 117 D 39 M 30 S

UTM 11 455600E 5844600 N  
JUN 01, 1976 TO/A OCT 21 1976MALIGNE RIVER 4KM BELOW MALIGNE LAKE  
(AT SECOND BRIDGE)

SUBM ID	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N	07106L NITROGEN DISSOLVED NO3 & NO2 N	ECHANTILLONS(IND.)
	USIE CM	USIE CM	REL UNITS	JTU	PH UNITS	PH UNITS	MG/L	MG/L	
SAMPLES(FLAGS) 0417	15(0)	2(0)	15(15)	15(0)	15(0)	3(0)	15(8)	9(0)	ECHANTILLONS(IND.)
LOW	158.	165.	L5.	.5	8.0	8.3	L.1	.04	MINIMUM
HIGH	177.	181.	L5.	2.5	8.2	8.4	.4	.07	MAXIMUM
AVERAGE	168.	173.		1.4			.1*	.047	MOYENNE
STD.DEV.	6.	11.		.6			.1*	.011	ECART-TYPE
PERCNT:10TH	161.		L5.	.6	8.0		L.1		10 <sup>e</sup> PERCNT
25TH	162.		L5.	.8	8.1		L.1	.04	25 <sup>e</sup>
MEDIAN 50TH	170.	173.	L5.	1.4	8.1	8.4	L.1	.04	50 <sup>e</sup> MEDIANE
75TH	172.		L5.	2.0	8.1		.1	.05	75 <sup>e</sup>
90TH	176.		L5.	2.1	8.2		.2		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

SUBM ID	15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	ECHANTILLONS(IND.)
	MG/L	NO/DL	NO/DL	NO/DL	
SAMPLES(FLAGS) 0417	15(7)	25(8)	25(23)	25(18)	ECHANTILLONS(IND.)
LOW	L.003	L1.	L1.	L1.	MINIMUM
HIGH	.008	G120.	2.	3.	MAXIMUM
AVERAGE	.004*	9.*	1.*	1.*	MOYENNE
STD.DEV.	.002*	24.*	0.*	0.*	ECART-TYPE
PERCNT:10TH	L.003	L1.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	L.003	L1.	L1.	L1.	25 <sup>e</sup>
MEDIAN 50TH	.003	1.	L1.	L1.	50 <sup>e</sup> MEDIANE
75TH	.005	5.	L1.	1.	75 <sup>e</sup>
90TH	.008	17.	L1.	2.	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0033** LAT. **52 D 50 M 10 S** LONG. **117 D 43 M 30 S**

UTM **11 451200 E 5854000 N**  
JUN 01, 1976 TO/À OCT 21, 1976

MALIGNE RIVER ABOVE MEDICINE LAKE  
JASPER NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS)</b> 0417	15(0)	2(0)	15(13)	15(0)	15(0)	3(0)	15(8)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>123.</b>	<b>148.</b>	<b>L5.</b>	<b>.7</b>	<b>8.1</b>	<b>8.3</b>	<b>L.1</b>	<b>.03</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>190.</b>	<b>169.</b>	<b>5.</b>	<b>18.</b>	<b>8.2</b>	<b>8.4</b>	<b>.3</b>	<b>.15</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>165.</b>	<b>159.</b>	<b>5.*</b>	<b>4.1</b>			<b>.1*</b>	<b>.053</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>16.</b>	<b>15.</b>	<b>0.*</b>	<b>4.5</b>			<b>.1*</b>	<b>.037</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>156.</b>		<b>L5.</b>	<b>1.1</b>	<b>8.1</b>		<b>L.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>157.</b>		<b>L5.</b>	<b>1.2</b>	<b>8.1</b>		<b>L.1</b>	<b>.04</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>168.</b>	<b>159.</b>	<b>L5.</b>	<b>2.7</b>	<b>8.1</b>	<b>8.4</b>	<b>L.1</b>	<b>.04</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>177.</b>		<b>L5.</b>	<b>4.8</b>	<b>8.1</b>		<b>.1</b>	<b>.05</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>181.</b>		<b>5.</b>	<b>8.9</b>	<b>8.2</b>		<b>.1</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
SUBM ID					
<b>SAMPLES(FLAGS)</b> 0417	15(4)	25(1)	25(11)	25(14)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.018</b>	<b>80.</b>	<b>72.</b>	<b>43.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.006*</b>	<b>11.*</b>	<b>5.*</b>	<b>3.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.004*</b>	<b>16.*</b>	<b>14.*</b>	<b>9.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.003</b>	<b>1.</b>	<b>L1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.003</b>	<b>3.</b>	<b>L1.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.005</b>	<b>7.</b>	<b>1.</b>	<b>L1.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.007</b>	<b>12.</b>	<b>1.</b>	<b>1.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.011</b>	<b>17.</b>	<b>7.</b>	<b>6.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0034 LAT. 52 D 51M 0 S LONG. 117 D 43M 10 S

UTM 11 451600E 5855600N  
JUN 01 1976 TO/A OCT 21 1976

BEAVER CREEK ABOVE MALIGNE LAKE  
ROAD CROSSING

SUBM ID	12041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	ECHANTILLONS(IND.)
	USIE CM	USIE CM	REL. UNITS	JTU	PH UNITS	PH UNITS	N MG/L	N MG/L	
SAMPLES(FLAGS) 0417	15(0)	3(0)	15(15)	15(0)	15(0)	3(0)	15(7)	9(0)	
LOW	261.	279.	L5.	.5	8.1	8.2	L.1	.04	MINIMUM
HIGH	363.	284.	L5.	3.0	8.2	8.5	.6	.08	MAXIMUM
AVERAGE	314.	282.		1.5			.1*	.057	MOYENNE
STD.DEV.	35.	3.		.8			.1*	.013	ECART-TYPE
PERCNT:10TH	266.		L5.	.7	8.1		L.1		10 <sup>e</sup> PERCNT
25TH	281.		L5.	.8	8.1		L.1	.05	25 <sup>e</sup>
MEDIAN 50TH	319.	282.	L5.	1.2	8.2	8.4	.1	.05	50 <sup>e</sup> MEDIANE
75TH	350.		L5.	2.0	8.2		.1	.07	75 <sup>e</sup>
90TH	356.		L5.	3.0	8.2		.1		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

SUBM ID	15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF	36012F COLIFORMS TOTAL MF	36102F FECAL STREP. MF	ECHANTILLONS(IND.)
	MG/L	NO/DL	NO/DL	NO/DL	
SAMPLES(FLAGS) 0417	15(6)	25(0)	25(17)	24(13)	
LOW	L.003	1.	L1.	L1.	MINIMUM
HIGH	.015	62.	11.	35.	MAXIMUM
AVERAGE	.005*	12.	2.*	5.*	MOYENNE
STD.DEV.	.003*	15.	2.*	10.*	ECART-TYPE
PERCNT:10TH	L.003	1.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	L.003	3.	L1.	L1.	25 <sup>e</sup>
MEDIAN 50TH	.003	6.	L1.	L1.	50 <sup>e</sup> MEDIANE
75TH	.004	14.	2.	2.	75 <sup>e</sup>
90TH	.010	30.	5.	26.	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0035** LAT. **52 D 55 M 10 S** LONG. **117 D 59 M 50 S**

UTM **11 433000E 5863600 N**  
JUN 01, 1976 TO/À OCT 21, 1976

MALIGNE RIVER ABOVE MALIGNE CANYON AT  
FOURTH BRIDGE CROSSING

		02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
	SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>15(0)</b>	<b>3(0)</b>	<b>15(14)</b>	<b>15(0)</b>	<b>15(0)</b>	<b>3(0)</b>	<b>14(8)</b>	<b>9(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>134.</b>	<b>128.</b>	<b>L5.</b>	<b>.8</b>	<b>8.0</b>	<b>8.3</b>	<b>L.1</b>	<b>.02</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>244.</b>	<b>149.</b>	<b>5.</b>	<b>12.</b>	<b>8.2</b>	<b>8.4</b>	<b>.5</b>	<b>.04</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>193.</b>	<b>141.</b>	<b>5.*</b>	<b>3.1</b>			<b>.1*</b>	<b>.029</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>38.</b>	<b>11.</b>	<b>0.*</b>	<b>3.1</b>			<b>.1*</b>	<b>.008</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>141.</b>		<b>L5.</b>	<b>1.0</b>	<b>8.0</b>		<b>L.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>157.</b>		<b>L5.</b>	<b>1.4</b>	<b>8.1</b>		<b>L.1</b>	<b>.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>205.</b>	<b>145.</b>	<b>L5.</b>	<b>2.2</b>	<b>8.2</b>	<b>8.3</b>	<b>L.1</b>	<b>.03</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>225.</b>		<b>L5.</b>	<b>3.2</b>	<b>8.2</b>		<b>.1</b>	<b>.03</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>238.</b>		<b>L5.</b>	<b>8.5</b>	<b>8.2</b>		<b>.1</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
	SUBM ID					
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>15(7)</b>	<b>24(2)</b>	<b>24(16)</b>	<b>24(8)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.015</b>	<b>20.</b>	<b>4.</b>	<b>28.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.005*</b>	<b>8.*</b>	<b>1.*</b>	<b>7.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.003*</b>	<b>7.*</b>	<b>1.*</b>	<b>9.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.003</b>	<b>1.</b>	<b>L1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.003</b>	<b>2.</b>	<b>L1.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.003</b>	<b>6.</b>	<b>L1.</b>	<b>2.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.006</b>	<b>13.</b>	<b>1.</b>	<b>14.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.008</b>	<b>19.</b>	<b>1.</b>	<b>19.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960.79  
ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0036 LAT. 52 D 55M 35 S LONG. 118 D 1M 5 S

UTM 11 431600: 5864400 N  
JUN 01. 1976 TO/A OCT 21 1976

MALIGNE RIVER BELOW MALIGNE CANYON AT  
FIFTH BRIDGE JASPER NATIONAL PARK

SUBM ID	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10961L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
SAMPLES(FLAGS) 0417	15(0)	3(0)	15(15)	15(0)	15(0)	3(0)	14(6)	9(0)	ECHANTILLONS(IND.)
LOW	161.	156.	L5.	1.2	8.0	8.3	L.1	.04	MINIMUM
HIGH	210.	159.	L5.	10.	8.2	8.4	.5	.05	MAXIMUM
AVERAGE	178.	158.		4.6			.2*	.047	MOYENNE
STD.DEV.	17.	2.		3.0			.1*	.005	ECART-TYPE
PERCNT:10TH	161.		L5.	1.2	8.0		L.1		10 <sup>e</sup> PERCNT
25TH	163.		L5.	1.4	8.0		L.1	.04	25 <sup>e</sup>
MEDIAN 50TH	175.	158.	L5.	4.4	8.1	8.3	.1	.05	50 <sup>e</sup> MEDIANE
75TH	184.		L5.	6.6	8.2		.2	.05	75 <sup>e</sup>
90TH	205.		L5.	9.5	8.2		.4		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

SUBM ID	15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
SAMPLES(FLAGS) 0417	15(4)	25(9)	25(21)	25(16)	ECHANTILLONS(IND.)
LOW	L.003	L1.	L1.	L1.	MINIMUM
HIGH	.019	G60.	2.	16.	MAXIMUM
AVERAGE	.006*	7.*	1.*	2.*	MOYENNE
STD.DEV.	.004*	12.*	0.*	3.*	ECART-TYPE
PERCNT:10TH	L.003	L1.	L1	L1.	10 <sup>e</sup> PERCNT
25TH	L.003	L1.	L1.	L1.	25 <sup>e</sup>
MEDIAN 50TH	.005	3.	L1.	L1.	50 <sup>e</sup> MEDIANE
75TH	.007	8.	L1.	1.	75 <sup>e</sup>
90TH	.008	12.	1	4.	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0037** LAT. **53 D 7M 20 S** LONG. **117 D 46M 30 S**UTM **11 448200E 5885800 N**  
JUN 01, 1976 TO/À OCT 22, 1976SULPHUR CREEK ABOVE MIETTE HOT SPRINGS  
JASPER NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS)</b> 0417	15(0)	3(0)	15(14)	15(0)	14(0)	3(0)	15(7)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>212.</b>	<b>246.</b>	<b>L5.</b>	<b>.5</b>	<b>8.0</b>	<b>8.4</b>	<b>L.1</b>	<b>.06</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>368.</b>	<b>273.</b>	<b>10.</b>	<b>21.</b>	<b>8.4</b>	<b>8.4</b>	<b>.6</b>	<b>.08</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>296.</b>	<b>264.</b>	<b>5.*</b>	<b>2.2</b>			<b>.2*</b>	<b>.070</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>50.</b>	<b>15.</b>	<b>1.*</b>	<b>5.2</b>			<b>.1*</b>	<b>.007</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>239.</b>		<b>L5.</b>	<b>.5</b>	<b>8.2</b>		<b>L.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>259.</b>		<b>L5.</b>	<b>.6</b>	<b>8.2</b>		<b>L.1</b>	<b>.07</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>294.</b>	<b>272.</b>	<b>L5.</b>	<b>.8</b>	<b>8.2</b>	<b>8.4</b>	<b>.1</b>	<b>.07</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>341.</b>		<b>L5.</b>	<b>1.3</b>	<b>8.3</b>		<b>.2</b>	<b>.07</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>361.</b>		<b>L5.</b>	<b>1.5</b>	<b>8.3</b>		<b>.3</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
SUBM ID					
<b>SAMPLES(FLAGS)</b> 0417	15(8)	25(7)	25(19)	25(16)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.110</b>	<b>23.</b>	<b>12.</b>	<b>44.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.012*</b>	<b>4.*</b>	<b>2.*</b>	<b>4.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.028*</b>	<b>6.*</b>	<b>2.*</b>	<b>9.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.003</b>	<b>3.</b>	<b>L1.</b>	<b>L1.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.003</b>	<b>5.</b>	<b>L1.</b>	<b>2.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.026</b>	<b>8.</b>	<b>2.</b>	<b>11.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0038 LAT. 53 D 7 M 40 S LONG. 117 D 46 M 30 S

UTM 11 448200E 5886400 N  
JUL 06 1976 TO/A OCT 22 1976SULPHUR CREEK ABOVE MIETTE HOT SPRINGS  
ROAD CROSSING JASPER NATIONAL PARK

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL XJELDAHL N	07106L NITROGEN DISSOLVED NO3 & NO2 N	
SUBM ID	USIE CM	USIE CM	REL UNITS	JTU	PH UNITS	PH UNITS	MG L	MG L	
SAMPLES(FLAGS) 0417	12(0)	3(0)	12(11)	12(0)	11(0)	3(0)	12(5)	6(0)	ECHANTILLONS(IND.)
LOW	254.	342.	L5.	.3	8.1	8.3	L.1	.06	MINIMUM
HIGH	654.	393.	10.	20.	8.3	8.4	.4	.08	MAXIMUM
AVERAGE	440.	367.	5.*	2.8			.1*	.072	MOYENNE
STD.DEV.	144.	26.	1.*	5.5			.1*	.008	ECART-TYPE
PERCNT:10TH	323.		L5.	.5	8.2		L.1		10 <sup>e</sup> PERCNT
25TH	333.		L5.	.9	8.2		L.1	.07	25 <sup>e</sup>
MEDIAN 50TH	360.	365.	L5.	1.2	8.2	8.4	.1	.070	50 <sup>e</sup> MEDIANE
75TH	583.		L5.	1.8	8.2		.2	.08	75 <sup>e</sup>
90TH	639.		L5.	3.0	8.3		.2		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF	36012F COLIFORMS FECAL MF	36102F FECAL STREP. MF	
SUBM ID	MG L	NO DL	NO DL	NO DL	
SAMPLES(FLAGS) 0417	12(5)	20(2)	20(16)	19(9)	ECHANTILLONS(IND.)
LOW	L.003	2.	L1.	L1.	MINIMUM
HIGH	.008	G120.	7.	57.	MAXIMUM
AVERAGE	.004*	31.*	1.*	8.*	MOYENNE
STD.DEV.	.002*	36.*	1.*	15.*	ECART-TYPE
PERCNT:10TH	L.003	4.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	L.003	12.	L1.	L1.	25 <sup>e</sup>
MEDIAN 50TH	.003	17.	L1.	1.	50 <sup>e</sup> MEDIANE
75TH	.005	36.	L1.	11.	75 <sup>e</sup>
90TH	.006	102.	2.	38.	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0039** LAT. **53 D 7 M 40 S** LONG. **117 D 46 M 30 S**

UTM **11 448200E 5886600 N**  
JUN 01, 1976 TO/A OCT 22, 1976

SULPHUR CREEK BELOW MIETTE HOT SPRINGS  
ROAD CROSSING JASPER NATIONAL PARK

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS)</b> 0417	15(0)	3(0)	15(14)	15(0)	14(0)	3(0)	15(7)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>252.</b>	<b>353.</b>	<b>L5.</b>	<b>.5</b>	<b>8.1</b>	<b>8.3</b>	<b>L.1</b>	<b>.06</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>657.</b>	<b>391.</b>	<b>10.</b>	<b>16.</b>	<b>8.3</b>	<b>8.4</b>	<b>.3</b>	<b>.12</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>452.</b>	<b>370.</b>	<b>5.*</b>	<b>2.0</b>			<b>.1*</b>	<b>.083</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>132.</b>	<b>19.</b>	<b>1.*</b>	<b>3.9</b>			<b>.1*</b>	<b>.017</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>324.</b>		<b>L5.</b>	<b>.5</b>	<b>8.2</b>		<b>L.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>338.</b>		<b>L5.</b>	<b>.6</b>	<b>8.2</b>		<b>L.1</b>	<b>.07</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>437.</b>	<b>367.</b>	<b>L5.</b>	<b>.9</b>	<b>8.2</b>	<b>8.4</b>	<b>.1</b>	<b>.08</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>574.</b>		<b>L5.</b>	<b>1.2</b>	<b>8.2</b>		<b>.1</b>	<b>.09</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>645.</b>		<b>L5.</b>	<b>2.7</b>	<b>8.3</b>		<b>.2</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
SUBM ID					
<b>SAMPLES(FLAGS)</b> 0417	15(7)	25(1)	25(8)	25(9)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.003</b>	<b>6.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.021</b>	<b>690.</b>	<b>G120.</b>	<b>400.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.005*</b>	<b>94.*</b>	<b>18.*</b>	<b>40.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.005*</b>	<b>167.*</b>	<b>27.*</b>	<b>84.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.003</b>	<b>6.</b>	<b>L1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.003</b>	<b>15.</b>	<b>L1.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.003</b>	<b>32.</b>	<b>5.</b>	<b>7.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.008</b>	<b>70.</b>	<b>21.</b>	<b>32.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.009</b>	<b>190.</b>	<b>51.</b>	<b>G120.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0040 LAT. 53 D 7M 45 S LONG. 117 D 46M 30 S

UTM 11 448200E 5886600 N  
JUN 01. 1976 TO/A OCT 22 1976

SULPHUR CREEK APPROX. 150M  
BELOW MIETTE HOT SPRINGS ROAD CROSSING

	SUBM ID	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	
		USIE CM	USIE CM	REL UNITS	JTU	PH UNITS	PH UNITS	N MG/L	N MG/L	
SAMPLES(FLAGS)	0417	15(0)	2(0)	15(14)	15(0)	15(0)	3(0)	15(7)	9(0)	ECHANTILLONS(IND.)
LOW		250.	345.	L5.	.2	8.1	8.4	L1	.07	MINIMUM
HIGH		657.	389.	10.	10.	8.4	8.4	.2	.08	MAXIMUM
AVERAGE		447.	367.	5.*	1.8			.1*	.077	MOYENNE
STD.DEV.		134.	31.	1.*	2.4			.0*	.005	ECART-TYPE
PERCNT:10TH		286.		L5.	.5	8.2		L1		10 <sup>e</sup> PERCNT
25TH		333.		L5.	.7	8.2		L1	.07	25 <sup>e</sup>
MEDIAN 50TH		435.	367.	L5.	1.0	8.2	8.4	.1	.08	50 <sup>e</sup> MEDIANE
75TH		568.		L5.	1.5	8.3		.1	.08	75 <sup>e</sup>
90TH		638.		L5.	3.5	8.3		.2		90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

	SUBM ID	15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF	36012F COLIFORMS FECAL MF	36102F FECAL STREP. MF	
		MG/L	NO/DL	NO/DL	NO/DL	
SAMPLES(FLAGS)	0417	15(6)	25(2)	25(8)	25(10)	ECHANTILLONS(IND.)
LOW		L.003	10.	L1.	L1.	MINIMUM
HIGH		.008	530.	G120.	900.	MAXIMUM
AVERAGE		.004*	81.*	14.*	56.*	MOYENNE
STD.DEV.		.001*	135.*	26.*	179.*	ECART-TYPE
PERCNT:10TH		L.003	14.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH		L.003	21.	L1.	L1.	25 <sup>e</sup>
MEDIAN 50TH		.003	36.	3.	5.	50 <sup>e</sup> MEDIANE
75TH		.004	75.	19.	32.	75 <sup>e</sup>
90TH		.005	G120.	43.	G120.	90 <sup>e</sup>
SECONDARY CODE						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0041** LAT. **53 D 8 M 40 S** LONG. **117 D 46 M 50 S**

UTM **11 447800 E 5888400 N**  
JUN 01, 1976 TO/À OCT 22, 1976

SULPHUR CREEK ABOVE CONFLUENCE WITH  
FIDDLE RIVER JASPER NATIONAL PARK

		02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
	SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS)</b>	0417	15(0)	3(0)	15(14)	15(0)	15(0)	3(0)	14(6)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>248.</b>	<b>355.</b>	<b>L5.</b>	<b>.5</b>	<b>8.2</b>	<b>8.5</b>	<b>L.1</b>	<b>.04</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>614.</b>	<b>388.</b>	<b>5.</b>	<b>15.</b>	<b>8.4</b>	<b>8.6</b>	<b>.3</b>	<b>.15</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>436.</b>	<b>371.</b>	<b>5.*</b>	<b>2.4</b>			<b>.1*</b>	<b>.080</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>119.</b>	<b>17.</b>	<b>0.*</b>	<b>3.7</b>			<b>.1*</b>	<b>.034</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>307.</b>		<b>L5.</b>	<b>.5</b>	<b>8.3</b>		<b>L.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>341.</b>		<b>L5.</b>	<b>.8</b>	<b>8.3</b>		<b>L.1</b>	<b>.06</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>420.</b>	<b>371.</b>	<b>L5.</b>	<b>1.3</b>	<b>8.3</b>	<b>8.6</b>	<b>.1</b>	<b>.07</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>547.</b>		<b>L5.</b>	<b>1.8</b>	<b>8.4</b>		<b>.2</b>	<b>.10</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>602.</b>		<b>L5.</b>	<b>5.5</b>	<b>8.4</b>		<b>.2</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
	SUBM ID					
<b>SAMPLES(FLAGS)</b>	0417	15(0)	25(2)	25(9)	25(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.003</b>	<b>17.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.035</b>	<b>12000.</b>	<b>1070.</b>	<b>370.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.010</b>	<b>2650.*</b>	<b>270.*</b>	<b>69.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.008</b>	<b>3699.*</b>	<b>343.*</b>	<b>104.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.004</b>	<b>32.</b>	<b>L1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.005</b>	<b>60.</b>	<b>L1.</b>	<b>1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.008</b>	<b>920.</b>	<b>70.</b>	<b>L10.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.010</b>	<b>4200.</b>	<b>490.</b>	<b>130.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.018</b>	<b>7200.</b>	<b>800.</b>	<b>160.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB BASIN

STATION **00AL07AA0042** LAT. **53 D 10 M 5 S** LONG. **117 D 49 M 0 S**

UTM **11 445400E 5891000 N**  
JUN 01 1976 TO/A OCT 22 1976

FIDDLE RIVER 5KM BELOW  
SULPHUR CREEK

SUBM ID	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N	07106L NITROGEN DISSOLVED NO3 & NO2 N	ECHANTILLONS(IND.)
	USIE CM	USIE CM	REL. UNITS	JTU	PH UNITS	PH UNITS	MG/L	MG/L	
SAMPLES(FLAGS) 0417	15(0)	3(0)	15(14)	15(0)	15(0)	3(0)	15(8)	9(0)	
LOW	249.	270.	L5.	.7	7.6	8.4	L.1	.06	MINIMUM
HIGH	388.	283.	5.	24.	8.4	8.5	.6	.09	MAXIMUM
AVERAGE	314.	278.	5.*	3.2			.1*	.070	MOYENNE
STD.DEV.	46.	7.	0.*	5.9			.1*	.010	ECART-TYPE
PERCNT:10TH	260.		L5.	.8	8.2		L.1		10 <sup>e</sup> PERCNT
25TH	269.		L5.	1.1	8.2		L.1	.06	25 <sup>e</sup>
MEDIAN 50TH	316.	281.	L5.	1.2	8.3	8.5	L.1	.07	50 <sup>e</sup> MEDIANE
75TH	350.		L5.	3.3	8.3		.1	.07	75 <sup>e</sup>
90TH	373.		L5.	5.8	8.3		.1		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

SUBM ID	15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF	36012F COLIFORMS FECAL MF	36102F FECAL STREP. MF	ECHANTILLONS(IND.)
	MG/L	NO/DL	NO/DL	NO/DL	
SAMPLES(FLAGS) 0417	15(7)	25(2)	25(12)	25(12)	
LOW	L.003	1.	L1.	L1.	MINIMUM
HIGH	.118	680.	45.	49.	MAXIMUM
AVERAGE	.012*	101.*	6.*	7.*	MOYENNE
STD.DEV.	.029*	166.*	10.*	12.*	ECART-TYPE
PERCNT:10TH	L.003	8.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	L.003	12.	L1.	L1.	25 <sup>e</sup>
MEDIAN 50TH	.004	37.	1.	1.	50 <sup>e</sup> MEDIANE
75TH	.007	G120.	6.	7.	75 <sup>e</sup>
90TH	.008	320.	19.	25.	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0043** LAT. **52 D 52 M 10 S** LONG. **118 D 3 M 45 S**

UTM **11 428400E 5858200 N**  
JUN 01, 1976 TO/A OCT 22, 1976

ATHABASCA RIVER AT FORT POINT BRIDGE  
JASPER NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N	07106L NITROGEN DISSOLVED NO3 & NO2 N	
SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS	MG/L	MG/L	
<b>SAMPLES(FLAGS) 0417</b>	<b>34(0)</b>	<b>9(0)</b>	<b>34(15)</b>	<b>34(0)</b>	<b>34(0)</b>	<b>9(0)</b>	<b>34(16)</b>	<b>22(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>101.</b>	<b>92.</b>	<b>L5.</b>	<b>2.6</b>	<b>7.9</b>	<b>8.5</b>	<b>L.1</b>	<b>.03</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>173.</b>	<b>124.</b>	<b>100.</b>	<b>270.</b>	<b>8.4</b>	<b>8.6</b>	<b>.4</b>	<b>.06</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>135.</b>	<b>111.</b>	<b>12.*</b>	<b>50.7</b>			<b>.1*</b>	<b>.041</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>20.</b>	<b>10.</b>	<b>18.*</b>	<b>63.7</b>			<b>.1*</b>	<b>.009</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>112.</b>		<b>L5.</b>	<b>3.8</b>	<b>8.0</b>		<b>L.1</b>	<b>.03</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>120.</b>	<b>108.</b>	<b>L5.</b>	<b>5.7</b>	<b>8.1</b>	<b>8.6</b>	<b>L.1</b>	<b>.03</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>130.</b>	<b>114.</b>	<b>5.</b>	<b>25.0</b>	<b>8.2</b>	<b>8.6</b>	<b>.1</b>	<b>.040</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>149.</b>	<b>118.</b>	<b>5.</b>	<b>65.</b>	<b>8.3</b>	<b>8.6</b>	<b>.1</b>	<b>.05</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>164.</b>		<b>30.</b>	<b>142.</b>	<b>8.4</b>		<b>.2</b>	<b>.05</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF	36012F COLIFORMS FECAL MF	36102F FECAL STREP. MF	
SUBM ID	MG/L	NO/DL	NO/DL	NO/DL	
<b>SAMPLES(FLAGS) 0417</b>	<b>34(4)</b>	<b>56(6)</b>	<b>56(15)</b>	<b>56(4)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.189</b>	<b>G1200.</b>	<b>180.</b>	<b>103.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.043*</b>	<b>312.*</b>	<b>36.*</b>	<b>19.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.048*</b>	<b>308.*</b>	<b>41.*</b>	<b>23.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.003</b>	<b>12.</b>	<b>L1.</b>	<b>1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.005</b>	<b>90.</b>	<b>2.</b>	<b>3.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.022</b>	<b>205.</b>	<b>19.</b>	<b>10.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.062</b>	<b>450.</b>	<b>60.</b>	<b>25.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.120</b>	<b>820.</b>	<b>107.</b>	<b>50.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0044** LAT. **52 D 13M 10 S** LONG. **117 D 13M 5 S**

UTM **11 485000E 5785200 N**  
JUN 02 1976 TO/A OCT 21 1976

RIPPLE CREEK AT SNOWMOBILE TOURS STAFF  
RESIDENCE ROAD JASPER NATIONAL PARK

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
SUBM ID	USIE CM	USIE CM	REL UNITS	JTU	PH UNITS	PH UNITS			
SAMPLES(FLAGS) 0417	15(0)	3(0)	15(13)	15(0)	15(0)	3(0)	15(5)	9(0)	ECHANTILLONS(IND.)
LOW	194.	190.	L5.	.9	8.1	8.4	L1	.02	MINIMUM
HIGH	316.	212.	5.	6.0	8.4	8.5	.4	.10	MAXIMUM
AVERAGE	250.	200.	5.	2.2			.1*	.047	MOYENNE
STD.DEV.	38.	11	0*	1.4			1*	.031	ECART-TYPE
PERCNT:10TH	200.		L5	1.0	8.1		L1		10 <sup>e</sup> PERCNT
25TH	208.		L5	1.3	8.2		L1	.03	25 <sup>e</sup>
MEDIAN 50TH	272.	197.	L5.	1.8	8.2	8.5	.1	.03	50 <sup>e</sup> MEDIANE
75TH	276.		L5	2.5	8.3		.2	.07	75 <sup>e</sup>
90TH	289.		5	4.5	8.3		.2		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
SUBM ID					
SAMPLES(FLAGS) 0417	15(5)	25(5)	25(23)	25(8)	ECHANTILLONS(IND.)
LOW	L.003	L1.	L1.	L1.	MINIMUM
HIGH	.012	38.	1.	8.	MAXIMUM
AVERAGE	.004*	6.*	1.*	2.*	MOYENNE
STD.DEV.	.003*	10.*	0.*	2.*	ECART-TYPE
PERCNT:10TH	L.003	L1.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	L.003	1.	L1.	L1.	25 <sup>e</sup>
MEDIAN 50TH	.003	3.	L1.	1.	50 <sup>e</sup> MEDIANE
75TH	.005	4.	L1.	2.	75 <sup>e</sup>
90TH	.010	17.	L1	4	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0045** LAT. **52 D 13M 10 S** LONG. **117 D 13M 10 S**

UTM **11 485000E 5785200 N**  
JUN 02, 1976 TO/A OCT 21, 1976

RIPPLE CREEK ABOVE RIPPLE LAKE  
JASPER NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS) 0417</b>	<b>15(0)</b>	<b>3(0)</b>	<b>15(13)</b>	<b>15(0)</b>	<b>15(0)</b>	<b>3(0)</b>	<b>15(4)</b>	<b>9(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>188.</b>	<b>191.</b>	<b>L5.</b>	<b>.7</b>	<b>8.0</b>	<b>8.4</b>	<b>L.1</b>	<b>.03</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>317.</b>	<b>212.</b>	<b>10.</b>	<b>5.0</b>	<b>8.4</b>	<b>8.5</b>	<b>.5</b>	<b>.10</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>250.</b>	<b>201.</b>	<b>5.*</b>	<b>2.0</b>			<b>.2*</b>	<b>.053</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>38.</b>	<b>11.</b>	<b>1.*</b>	<b>1.2</b>			<b>.1*</b>	<b>.030</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>195.</b>		<b>L5.</b>	<b>1.0</b>	<b>8.1</b>		<b>L.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>215.</b>		<b>L5.</b>	<b>1.3</b>	<b>8.2</b>		<b>L.1</b>	<b>.03</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>269.</b>	<b>200.</b>	<b>L5.</b>	<b>1.5</b>	<b>8.3</b>	<b>8.4</b>	<b>.1</b>	<b>.04</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>275.</b>		<b>L5.</b>	<b>2.3</b>	<b>8.3</b>		<b>.2</b>	<b>.07</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>289.</b>		<b>5.</b>	<b>4.0</b>	<b>8.4</b>		<b>.4</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
SUBM ID					
<b>SAMPLES(FLAGS) 0417</b>	<b>15(6)</b>	<b>25(4)</b>	<b>25(20)</b>	<b>25(8)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.015</b>	<b>21.</b>	<b>4.</b>	<b>7.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.005*</b>	<b>5.*</b>	<b>1.*</b>	<b>2.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.003*</b>	<b>6.*</b>	<b>1.*</b>	<b>2.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.003</b>	<b>1.</b>	<b>L1.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.003</b>	<b>2.</b>	<b>L1.</b>	<b>1.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.005</b>	<b>6.</b>	<b>L1.</b>	<b>2.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.007</b>	<b>17.</b>	<b>1.</b>	<b>5.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0046 LAT. 52 D 13M 5 S LONG. 117 D 13M 25 S

UTM 11 484600E 5785200 N  
JUN-02 1976 TO A OCT 21 1976

RIPPLE CREEK BELOW RIPPLE LAKE  
JASPER NATIONAL PARK ALBERTA

	12041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL	07156L NITROGEN DISSOLVED NO3 & NO2	
	USIE CM	USIE CM	REL. UNITS	JTU	PH-UNITS	PH-UNITS	N MG L	N MG L	
SAMPLES(FLAGS) 0417	15(0)	3(0)	15(14)	15(0)	15(0)	3(0)	15(4)	9(0)	ECHANTILLONS(IND.)
LOW	200.	197.	L5.	.4	8.0	8.4	L.1	.04	MINIMUM
HIGH	290.	218.	5.	8.3	8.3	8.4	.6	.14	MAXIMUM
AVERAGE	250.	205.	5.*	2.4			.2*	.073	MOYENNE
STD.DEV.	32.	12.	0.*	2.1			.2*	.038	ECART-TYPE
PERCNT:10TH	202.		L5.	.9	8.0		L.1		10 <sup>e</sup> PERCNT
25TH	218.		L5.	1.3	8.1		L.1	.04	25 <sup>e</sup>
MEDIAN 50TH	270.	199.	L5.	1.6	8.2	8.4	.1	.07	50 <sup>e</sup> MEDIANE
75TH	276.		L5.	2.8	8.2		.2	.08	75 <sup>e</sup>
90TH	279.		L5.	5.0	8.3		.5		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF	36012F COLIFORMS FECAL MF	36102F FECAL STREP. MF	
	MG L	NO DL	NO DL	NO DL	
SAMPLES(FLAGS) 0417	15(8)	25(8)	25(24)	25(5)	ECHANTILLONS(IND.)
LOW	L.003	L1.	L1.	L1.	MINIMUM
HIGH	.025	35.	1.	10.	MAXIMUM
AVERAGE	.005*	5.*	1.*	2.*	MOYENNE
STD.DEV.	.006*	7.*	0.*	2.*	ECART-TYPE
PERCNT:10TH	L.003	L1.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	L.003	L1.	L1.	1.	25 <sup>e</sup>
MEDIAN 50TH	L.003	1.	L1.	1.	50 <sup>e</sup> MEDIANE
75TH	.003	5.	L1.	2.	75 <sup>e</sup>
90TH	.005	12.	L1.	4.	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0047** LAT. **52 D 13M 5 S** LONG. **117 D 13M 30 S**

UTM **11 484600E 5785200 N**  
JUN 02, 1976 TO/A OCT 21, 1976

RIPPLE CREEK OPPOSITE ICEFIELDS  
INFORMATION CENTRE

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS)</b> 0417	15(0)	3(0)	15(13)	15(0)	15(0)	3(0)	15(3)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>191.</b>	<b>202.</b>	<b>L5.</b>	<b>.5</b>	<b>7.9</b>	<b>8.3</b>	<b>L.1</b>	<b>.04</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>288.</b>	<b>215.</b>	<b>10.</b>	<b>5.8</b>	<b>8.3</b>	<b>8.4</b>	<b>.3</b>	<b>.13</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>247.</b>	<b>208.</b>	<b>5.*</b>	<b>2.3</b>			<b>.2*</b>	<b>.068</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>34.</b>	<b>7.</b>	<b>1.*</b>	<b>1.5</b>			<b>.1*</b>	<b>.037</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>194.</b>		<b>L5.</b>	<b>1.1</b>	<b>8.1</b>		<b>L.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>217.</b>		<b>L5.</b>	<b>1.4</b>	<b>8.2</b>		<b>.1</b>	<b>.04</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>269.</b>	<b>206.</b>	<b>L5.</b>	<b>1.8</b>	<b>8.2</b>	<b>8.4</b>	<b>.2</b>	<b>.05</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>275.</b>		<b>L5.</b>	<b>2.6</b>	<b>8.3</b>		<b>.2</b>	<b>.07</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>279.</b>		<b>5.</b>	<b>5.5</b>	<b>8.3</b>		<b>.3</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
SUBM ID					
<b>SAMPLES(FLAGS)</b> 0417	15(2)	24(5)	24(8)	25(5)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.003</b>	<b>5.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.040</b>	<b>96000.</b>	<b>9500.</b>	<b>5300.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.016*</b>	<b>20123.*</b>	<b>1844.*</b>	<b>633.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.013*</b>	<b>28350.*</b>	<b>2669.*</b>	<b>1086.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.003</b>	<b>10.</b>	<b>L1.</b>	<b>2.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.005</b>	<b>195.</b>	<b>50.*</b>	<b>62.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.010</b>	<b>7700.</b>	<b>560.</b>	<b>280.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.025</b>	<b>34000.</b>	<b>2650.</b>	<b>960.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.040</b>	<b>54000.</b>	<b>6700.</b>	<b>G1200.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0048 LAT. 52 D 12 M 45 S LONG. 117 D 14 M 0 S

UTM 11 484200 5784400 N  
JUN 02, 1976 TO/A OCT 21, 1976SUNWAPTA RIVER AT SHIVERS AND  
GOOSEBUMPS BRIDGE JASPER NATIONAL PARK

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
SUBM ID	USIE CM	USIE CM	REL UNITS	JTU	PH UNITS	PH UNITS			
SAMPLES(FLAGS) 0417	15(0)	2(0)	15(2)	15(1)	15(0)	3(0)	15(6)	9(0)	ECHANTILLONS(IND.)
LOW	63.	85.	L5.	5.8	8.2	8.8	L.1	.03	MINIMUM
HIGH	185.	86.	125.	420.	8.9	8.9	.3	.15	MAXIMUM
AVERAGE	110.	86.	17.*	85.1*			.1*	.079	MOYENNE
STD.DEV.	38.	1.	31.*	100.0*			.1*	.041	ECART-TYPE
PERCNT:10TH	76.		L5.	10.	8.2		L.1		10 <sup>e</sup> PERCNT
25TH	81.		5.	29.	8.3		L.1	.05	25 <sup>e</sup>
MEDIAN 50TH	97.	86.	5.	63.	8.5	8.9	.1	.06	50 <sup>e</sup> MEDIANE
75TH	155.		10.	98.	8.7		.2	.11	75 <sup>e</sup>
90TH	165.		30.	150.	8.7		.2		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO./DL	36012F COLIFORMS FECAL MF NO./DL	36102F FECAL STREP MF NO./DL	
SUBM ID					
SAMPLES(FLAGS) 0417	15(1)	25(21)	25(25)	25(23)	ECHANTILLONS(IND.)
LOW	L.003	L1.	L1.	L1.	MINIMUM
HIGH	.27	1.	L1.	8.	MAXIMUM
AVERAGE	.048*	1.*		1.*	MOYENNE
STD.DEV.	.066*	0.*		1.*	ECART-TYPE
PERCNT:10TH	.003	L1.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	.015	L1.	L1.	L1.	25 <sup>e</sup>
MEDIAN 50TH	.030	L1.	L1.	L1.	50 <sup>e</sup> MEDIANE
75TH	.062	L1.	L1.	L1.	75 <sup>e</sup>
90TH	.084	1.	L1	L1.	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values./Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0049** LAT. **52 D 13M 10 S** LONG. **117 D 14M 0 S**UTM **11 484000E 5785200 N**  
JUN 02, 1976 TO/À OCT 21, 1976SUNWAPTA RIVER BELOW SUNWAPTA LAKE  
JASPER NATIONAL PARK ALBERTA

		02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
	SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>15(0)</b>	<b>3(0)</b>	<b>15(3)</b>	<b>15(0)</b>	<b>15(0)</b>	<b>3(0)</b>	<b>15(8)</b>	<b>9(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>78.</b>	<b>92.</b>	<b>L5.</b>	<b>7.1</b>	<b>8.1</b>	<b>8.4</b>	<b>L.1</b>	<b>.04</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>184.</b>	<b>121.</b>	<b>30.</b>	<b>76.</b>	<b>8.7</b>	<b>8.8</b>	<b>.3</b>	<b>.11</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>116.</b>	<b>102.</b>	<b>8.*</b>	<b>33.6</b>			<b>.1*</b>	<b>.072</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>33.</b>	<b>16.</b>	<b>7.*</b>	<b>23.1</b>			<b>.1*</b>	<b>.026</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>80.</b>		<b>L5.</b>	<b>10.7</b>	<b>8.2</b>		<b>L.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>96.</b>		<b>5.</b>	<b>12.</b>	<b>8.2</b>		<b>L.1</b>	<b>.05</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>103.</b>	<b>93.</b>	<b>5.</b>	<b>28.</b>	<b>8.4</b>	<b>8.8</b>	<b>L.1</b>	<b>.07</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>129.</b>		<b>10.</b>	<b>55.</b>	<b>8.6</b>		<b>.1</b>	<b>.09</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>173.</b>		<b>20.</b>	<b>65.</b>	<b>8.7</b>		<b>.2</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
	SUBM ID					
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>15(1)</b>	<b>25(21)</b>	<b>25(25)</b>	<b>25(18)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.034</b>	<b>1.</b>	<b>L1.</b>	<b>3.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.013*</b>	<b>1.*</b>		<b>1.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.010*</b>	<b>0.*</b>		<b>0.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.004</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.006</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.01</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.020</b>	<b>L1.</b>	<b>L1.</b>	<b>1.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.030</b>	<b>1.</b>	<b>L1.</b>	<b>2.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0050 LAT 52 D 16M 5 S LONG 117 D 17M 25 S

UTM 11 480200 5790800  
JUN 02 1976 TO/A OCT 21 1976

TANGLE CREEK ABOVE WORK COMPOUND  
JASPER NATIONAL PARK ALBERTA

	020411 SPECIFIC CONDUCT.	020415 SPECIFIC CONDUCT.	020111 COLOUR APPARENT	020711 TURBIDITY	153011 PH	153015 PH	075021 NITROGEN TOTAL KJELDAHL	075021 NITROGEN DISSOLVED NO3 & NO2	
	USIE / CM	USIE / CM	REL. UNITS	JTU	PH UNITS	PH UNITS	MG / L	MG / L	
SAMPLES(FLAGS) 0417	14(0)	3(0)	15(13)	14(0)	15(0)	3(0)	15(5)	9(0)	ECHANTILLONS(IND.)
LOW	197.	213.	L5.	.4	7.9	8.2	L.1	.05	MINIMUM
HIGH	316.	221.	5.	3.2	8.3	8.5	.4	.08	MAXIMUM
AVERAGE	255.	216.	5.*	1.2			.1*	.061	MOYENNE
STD.DEV.	39.	4.	0.*	.7			.1*	.014	ECART-TYPE
PERCNT:10TH	201.		L5.	.5	8.1		L.1		10 <sup>e</sup> PERCNT
25TH	222.		L5.	.7	8.2		L.1	.05	25 <sup>e</sup>
MEDIAN 50TH	266.	215.	L5.	1.0	8.3	8.4	.1	.05	50 <sup>e</sup> MEDIANE
75TH	276.		L5.	1.4	8.3		.2	.07	75 <sup>e</sup>
90TH	302.		5.	2.0	8.3		.2		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF	36012F COLIFORMS FECAL MF	36102F FECAL STREP MF	
	MG / L	NO. DL	NO. DL	NO. DL	
SAMPLES(FLAGS) 0417	15(6)	25(8)	25(23)	25(15)	ECHANTILLONS(IND.)
LOW	L.003	L1.	L1.	L1.	MINIMUM
HIGH	.040	18.	8.	17.	MAXIMUM
AVERAGE	.009*	4.*	1.*	2.*	MOYENNE
STD.DEV.	.012*	4.*	1.*	3.*	ECART-TYPE
PERCNT:10TH	L.003	L1.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	L.003	L1.	L1.	L1.	25 <sup>e</sup>
MEDIAN 50TH	.003	2.	L1.	L1.	50 <sup>e</sup> MEDIANE
75TH	.007	5.	L1.	1.	75 <sup>e</sup>
90TH	.035	8.	L1.	1.	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0051** LAT. **51 D 16M 5 S** LONG. **117 D 17M 30 S**

UTM **11 479600E 5679400 N**  
JUN 02, 1976 TO/A OCT 21, 1976

TANGLE CREEK BELOW WORK COMPOUND  
JASPER NATIONAL PARK ALBERTA

		02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
	SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>15(0)</b>	<b>3(0)</b>	<b>15(13)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>3(0)</b>	<b>15(7)</b>	<b>9(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>187.</b>	<b>215.</b>	<b>L5.</b>	<b>.5</b>	<b>8.2</b>	<b>8.4</b>	<b>L.1</b>	<b>.04</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>318.</b>	<b>221.</b>	<b>5.</b>	<b>3.2</b>	<b>8.3</b>	<b>8.5</b>	<b>.3</b>	<b>.08</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>246.</b>	<b>217.</b>	<b>5.*</b>	<b>1.2</b>			<b>.1*</b>	<b>.060</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>40.</b>	<b>3.</b>	<b>0.*</b>	<b>.7</b>			<b>.1*</b>	<b>.014</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>197.</b>		<b>L5.</b>	<b>.7</b>	<b>8.2</b>		<b>L.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>214.</b>		<b>L5.</b>	<b>.8</b>	<b>8.2</b>		<b>L.1</b>	<b>.05</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>231.</b>	<b>216.</b>	<b>L5.</b>	<b>1.0</b>	<b>8.3</b>	<b>8.5</b>	<b>.1</b>	<b>.06</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>274.</b>		<b>L5.</b>	<b>1.2</b>	<b>8.3</b>		<b>.2</b>	<b>.07</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>304.</b>		<b>5.</b>	<b>2.5</b>	<b>8.3</b>		<b>.2</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
	SUBM ID					
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>15(7)</b>	<b>25(7)</b>	<b>25(23)</b>	<b>25(19)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.040</b>	<b>11.</b>	<b>7.</b>	<b>2.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.008*</b>	<b>3.*</b>	<b>1.*</b>	<b>1.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.010*</b>	<b>3.*</b>	<b>1.*</b>	<b>0.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.003</b>	<b>2.</b>	<b>L1.</b>	<b>L1.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.015</b>	<b>5.</b>	<b>L1.</b>	<b>L1.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.015</b>	<b>7.</b>	<b>L1.</b>	<b>1.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AA0052 LAT. 52 D 27M 5 S LONG. 117 D 26M 15 S

UTM 11 470200E 5811200 N  
JUN 02, 1976 TO/A OCT 21, 1976POBOKTAN CREEK ABOVE WARDEN STATION  
JASPER NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	
	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS	N MG/L	N MG/L	
SAMPLES(FLAGS) 0417	15(0)	3(0)	15(9)	15(0)	14(0)	3(0)	15(6)	9(0)	ECHANTILLONS(IND.)
LOW	116.	117.	L5.	1.5	8.0	8.2	L1	.03	MINIMUM
HIGH	254.	123.	10.	13.	8.2	8.3	.2	.04	MAXIMUM
AVERAGE	172.	120.	5.*	7.8			.1*	.034	MOYENNE
STD.DEV.	45.	3.	1.*	4.0			.0*	.005	ECART-TYPE
PERCNT:10TH	126.		L5.	1.9	8.0		L1		10 <sup>e</sup> PERCNT
25TH	131.		L5.	3.4	8.1		L1	.03	25 <sup>e</sup>
MEDIAN 50TH	184.	119.	L5.	10.	8.1	8.3	.1	.03	50 <sup>e</sup> MEDIANE
75TH	195.		5.	10.	8.2		.2	.04	75 <sup>e</sup>
90TH	236.		5.	11.	8.2		.2		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	
	P MG/L	MF NO/DL	MF NO/DL	MF NO/DL	
SAMPLES(FLAGS) 0417	15(1)	25(6)	25(16)	25(17)	ECHANTILLONS(IND.)
LOW	L.003	L1.	L1.	L1.	MINIMUM
HIGH	.019	G120.	59.	G120.	MAXIMUM
AVERAGE	.008*	14.*	6.*	7.*	MOYENNE
STD.DEV.	.005*	25.*	14.*	24.*	ECART-TYPE
PERCNT:10TH	.003	L1.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	.003	1.	L1.	L1.	25 <sup>e</sup>
MEDIAN 50TH	.008	5.	L1.	L1.	50 <sup>e</sup> MEDIANE
75TH	.010	15.	1.	1.	75 <sup>e</sup>
90TH	.015	27.	20.	4.	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0053** LAT. **52 D 32 M 10 S** LONG. **117 D 38 M 20 S**UTM **11 456600E 5820600 N**  
JUN 02, 1976 TO/A OCT 21, 1976BUCK CREEK ABOVE HWY. 93 ROAD  
CROSSING JASPER NATIONAL PARK ALBERTA

		02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
	SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>15(0)</b>	<b>3(0)</b>	<b>15(8)</b>	<b>15(0)</b>	<b>14(0)</b>	<b>3(0)</b>	<b>15(1)</b>	<b>9(6)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>198.</b>	<b>214.</b>	<b>L5.</b>	<b>.1</b>	<b>7.8</b>	<b>8.1</b>	<b>L.1</b>	<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>229.</b>	<b>225.</b>	<b>10.</b>	<b>4.3</b>	<b>8.2</b>	<b>8.1</b>	<b>.4</b>	<b>.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>213.</b>	<b>220.</b>	<b>7.*</b>	<b>1.6</b>			<b>.2*</b>	<b>.010*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>10.</b>	<b>6.</b>	<b>3.*</b>	<b>1.0</b>			<b>.1*</b>	<b>.000*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>203.</b>		<b>L5.</b>	<b>.5</b>	<b>7.9</b>		<b>.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>205.</b>		<b>L5.</b>	<b>1.0</b>	<b>7.9</b>		<b>.1</b>	<b>L.01</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>211.</b>	<b>220.</b>	<b>L5.</b>	<b>1.3</b>	<b>8.0</b>	<b>8.1</b>	<b>.2</b>	<b>L.01</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>224.</b>		<b>10.</b>	<b>2.0</b>	<b>8.0</b>		<b>.3</b>	<b>.01</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>229.</b>		<b>10.</b>	<b>2.7</b>	<b>8.1</b>		<b>.4</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
<b>SAMPLES(FLAGS)</b>	<b>0417</b>	<b>15(3)</b>	<b>25(5)</b>	<b>25(19)</b>	<b>24(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.012</b>	<b>400.</b>	<b>5.</b>	<b>23.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.005*</b>	<b>67.*</b>	<b>1.*</b>	<b>5.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.003*</b>	<b>103.*</b>	<b>1.*</b>	<b>5.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.003</b>	<b>L1.</b>	<b>L1.</b>	<b>1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.003</b>	<b>5.</b>	<b>L1.</b>	<b>1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.005</b>	<b>23.</b>	<b>L1.</b>	<b>3.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.007</b>	<b>110.</b>	<b>L1.</b>	<b>8.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.008</b>	<b>160.</b>	<b>1.</b>	<b>12.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0054 LAT. 52 D 32 M 5 S LONG. 117 D 38 M 20 S

UTM 11 456600 E 5820600 N  
JUN 02 1976 TO/A OCT 21 1976BUCK CREEK APPROX. 100M BELOW HWY. 93  
JASPER NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N	07106L NITROGEN DISSOLVED NO3 & NO2 N	
SUBM ID	USIE CM	USIE CM	REL. UNITS	JTU	PH UNITS	PH UNITS	MG/L	MG/L	
SAMPLES(FLAGS) 0417	15(0)	3(0)	15(8)	15(0)	14(0)	3(0)	15(0)	9(2)	ECHANTILLONS(IND.)
LOW	208.	222.	L5.	.8	7.3	8.1	.1	L.01	MINIMUM
HIGH	251.	233.	20.	4.1	8.1	8.1	1.1	.07	MAXIMUM
AVERAGE	223.	226.	8.*	2.2			.5	.027*	MOYENNE
STD.DEV.	13.	6.	4.*	.9			.3	.023*	ECART-TYPE
PERCNT:10TH	210.		L5.	1.0	7.9		.2		10 <sup>e</sup> PERCNT
25TH	213.		L5.	1.8	8.0		.3	.01	25 <sup>e</sup>
MEDIAN 50TH	221.	223.	L5.	2.0	8.0	8.1	.4	.02	50 <sup>e</sup> MEDIANE
75TH	230.		10.	3.2	8.1		.6	.03	75 <sup>e</sup>
90TH	243.		10.	3.3	8.1		1.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL P	36002F COLIFORMS TOTAL MF	36012F COLIFORMS FECAL MF	36102F FECAL STREP. MF	
SUBM ID	MG/L	NO/DL	NO/DL	NO/DL	
SAMPLES(FLAGS) 0417	15(0)	23(3)	25(3)	25(3)	ECHANTILLONS(IND.)
LOW	.004	130.	L1.	L1.	MINIMUM
HIGH	.21	80000.	70000.	14000.	MAXIMUM
AVERAGE	.050	22283.*	7212.*	3436.*	MOYENNE
STD.DEV.	.054	31870.*	14328.*	4451.*	ECART-TYPE
PERCNT:10TH	.006	440.	1.	4.	10 <sup>e</sup> PERCNT
25TH	.012	800.	108.	16.	25 <sup>e</sup>
MEDIAN 50TH	.040	12000.	G1200.	1100.	50 <sup>e</sup> MEDIANE
75TH	.079	22000.	9500.	5500.	75 <sup>e</sup>
90TH	.100	10000.	17000.	11900.	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AA0055** LAT. **52 D 32 M 0 S** LONG. **117 D 38 M 25 S**UTM **11 456600E 5820400 N**  
JUN 02, 1976 TO/A OCT 21, 1976BUCK CREEK AT THE MOUTH  
JASPER NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	
SUBM ID	USIE/CM	USIE/CM	REL. UNITS	JTU	PH UNITS	PH UNITS			
<b>SAMPLES(FLAGS)</b> 0417	15(0)	3(0)	15(6)	15(0)	14(0)	3(0)	15(1)	9(0)	<b>ECHANTILLONS(IND.)</b>
LOW	217.	232.	L5.	.5	7.8	8.0	L.1	.01	<b>MINIMUM</b>
HIGH	249.	247.	20.	3.5	8.1	8.1	.5	.55	<b>MAXIMUM</b>
AVERAGE	232.	239.	7.*	2.3			.3*	.204	<b>MOYENNE</b>
STD.DEV.	11.	8.	4.*	.9			.1*	.180	<b>ECART-TYPE</b>
PERCNT:10TH	218.		L5.	.6	7.8		.1		<b>10<sup>e</sup> PERCNT</b>
25TH	223.		L5.	1.8	7.9		.2	.05	<b>25<sup>e</sup></b>
MEDIAN 50TH	230.	239.	5.	2.5	7.9	8.0	.2	.20	<b>50<sup>e</sup> MEDIANE</b>
75TH	241.		10.	2.7	8.0		.4	.25	<b>75<sup>e</sup></b>
90TH	246.		10.	3.5	8.0		.5		<b>90<sup>e</sup></b>
SECONDARY CODE									<b>CODE DE SECOURS</b>

	15406L PHOSPHORUS TOTAL P MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36102F FECAL STREP. MF NO/DL	
SUBM ID					
<b>SAMPLES(FLAGS)</b> 0417	15(0)	24(2)	25(3)	25(1)	<b>ECHANTILLONS(IND.)</b>
LOW	.007	1.	L1.	L1.	<b>MINIMUM</b>
HIGH	.089	60000.	8200.	11400.	<b>MAXIMUM</b>
AVERAGE	.033	39773.*	1385.*	1375.*	<b>MOYENNE</b>
STD.DEV.	.026	75543.*	2195.*	2647.*	<b>ECART-TYPE</b>
PERCNT:10TH	.008	100.	1.	5.	<b>10<sup>e</sup> PERCNT</b>
25TH	.011	220.	46.	23.	<b>25<sup>e</sup></b>
MEDIAN 50TH	.03	8250.	G500.	310.	<b>50<sup>e</sup> MEDIANE</b>
75TH	.045	56000.	1500.	1100.	<b>75<sup>e</sup></b>
90TH	.075	92000.	3300.	3500.	<b>90<sup>e</sup></b>
SECONDARY CODE					<b>CODE DE SECOURS</b>

These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AA0056 LAT. 52 D 51 M 45 S LONG. 117 D 5 M 45 S

UTM 11 493560E 5856760 N  
JUN 02 1976 TO/A OCT 22 1976MIETTE RIVER AT HWY 16 WEST OF JASPER  
JASPER NATIONAL PARK ALBERTA

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10301S PH	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	
SUBM ID	USIE CM	USIE CM	REL UNITS	JTU	PH UNITS	PH UNITS	N MG/L	N MG/L	
SAMPLES(FLAGS) 0417	15(0)	3(0)	15(5)	15(0)	15(0)	3(0)	15(9)	9(0)	ECHANTILLONS(IND.)
LOW	79.	76.	L5.	1.2	7.4	7.7	L.1	.02	MINIMUM
HIGH	168.	89.	30.	27.	7.9	8.1	.6	.04	MAXIMUM
AVERAGE	120.	84.	7.*	7.3			.2*	.023	MOYENNE
STD.DEV.	31.	7.	7.*	7.1			.1*	.007	ECART-TYPE
PERCNT:10TH	89.		L5.	1.7	7.7		L.1		10 <sup>e</sup> PERCNT
25TH	90.		L5.	3.2	7.7		L.1	.02	25 <sup>e</sup>
MEDIAN 50TH	119.	86.	5.	5.9	7.8	8.0	L.1	.02	50 <sup>e</sup> MEDIANE
75TH	155.		5.	8.3	7.9		.2	.02	75 <sup>e</sup>
90TH	158.		10.	19.	7.9		.3		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	15406L PHOSPHORUS TOTAL	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	
SUBM ID	P MG/L	MF NO/DL	MF NO/DL	MF NO/DL	
SAMPLES(FLAGS) 0417	15(4)	25(3)	25(7)	25(7)	ECHANTILLONS(IND.)
LOW	L.003	L1.	L1.	L1.	MINIMUM
HIGH	.035	G120.	G120.	114.	MAXIMUM
AVERAGE	.010*	20.*	7.*	11.*	MOYENNE
STD.DEV.	.010*	23.*	24.*	23.*	ECART-TYPE
PERCNT:10TH	L.003	4.	L1.	L1.	10 <sup>e</sup> PERCNT
25TH	L.003	7.	1.	L1.	25 <sup>e</sup>
MEDIAN 50TH	.005	15.	1.	2.	50 <sup>e</sup> MEDIANE
75TH	.014	24.	3.	10.	75 <sup>e</sup>
90TH	.030	30.	7.	21.	90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AB0001** LAT. **53 D 9 M 30 S** LONG. **118 D 2 M 0 S**UTM **11 430900E 5890200 N**  
AUG 31, 1972 TO/A NOV 05, 1975SNAKE INDIAN RIVER ABOUT 1.2 MILES  
ABOVE DEVONA FLATS.

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM									
SAMPLES(FLAGS)	0417	18(0)	18(0)	15(0)	17(9)	17(0)	18(0)	18(0)	18(0)	ECHANTILLONS(IND.)
LOW		201.	111.	104.	L5.	.3	7.9	69.0	-.2	MINIMUM
HIGH		696.	503.	415.	30.	100.	8.3	139.	.8	MAXIMUM
AVERAGE		425.	272.	233.1	7.*	18.2		100.7		MOYENNE
STD.DEV.		160.	126.	104.0	6.*	31.9		24.9		ECART-TYPE
PERCNT:10TH		220.	127.	111.	L5.	.7	7.9	76.0	-.1	10 <sup>e</sup> PERCNT
25TH		309.	183.	150.	L5.	1.6	8.0	80.0	.2	25 <sup>e</sup>
MEDIAN 50TH		394.	242.	247.	L5.	7.5	8.1	89.2	.3	50 <sup>e</sup> MEDIANE
75TH		530.	330.	355.	7.	10.0	8.2	133.	.6	75 <sup>e</sup>
90TH		650.	475.	367.	10.	100.	8.3	134.	.7	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID										
SAMPLES(FLAGS)	0417	18(0)	18(0)	18(0)	15(0)	18(0)	18(0)	18(0)	18(0)	ECHANTILLONS(IND.)
LOW		.4	.8	30.0	3.3	0.	84.	.2	24.0	MINIMUM
HIGH		1.3	3.0	114.	31.7	0.	169.	1.4	270.	MAXIMUM
AVERAGE		.6	1.8	64.03	17.0	0.	123.	.7	127.4	MOYENNE
STD.DEV.		.2	.8	25.62	9.0	0.	30.	.3	78.5	ECART-TYPE
PERCNT:10TH		.4	.9	34.0	7.1	0.	93.	.3	37.	10 <sup>e</sup> PERCNT
25TH		.4	1.2	47.	9.3	0.	98.	.4	72.9	25 <sup>e</sup>
MEDIAN 50TH		.6	1.6	55.50	18.7	0.	109.	.6	108.0	50 <sup>e</sup> MEDIANE
75TH		.6	2.4	77.4	25.5	0.	162.	.9	170.	75 <sup>e</sup>
90TH		.8	2.9	105.	28.0	0.	163.	1.1	260.	90 <sup>e</sup>
SECONDARY CODE				03L				06L	06L 04L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15255L PHOSPHORUS ORTHOPHOSPHATE P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO O2 MG/L	
SUBM ID										
SAMPLES(FLAGS)	0417	16(3)	17(0)	15(15)	15(14)	18(8)	17(0)	17(4)	11(0)	ECHANTILLONS(IND.)
LOW		.1	.02	L.002	L.001	L.003	2.1	L.5	9.8	MINIMUM
HIGH		1.5	1.80	L.003	.003	.210	4.7	7.0	13.1	MAXIMUM
AVERAGE		.3*	.186		.002*	.025*	3.28	2.3*	11.3	MOYENNE
STD.DEV.		.3*	.420		.001*	.051*	.94	2.0*	1.2	ECART-TYPE
PERCNT:10TH		L.1	.030	L.002	L.001	L.003	2.2	L.0.	10.1	10 <sup>e</sup> PERCNT
25TH		.1*	.04	L.002	L.001	L.005	2.4	1.0	10.4	25 <sup>e</sup>
MEDIAN 50TH		.2	.08	L.002	L.001	.007	3.2	1.0	10.8	50 <sup>e</sup> MEDIANE
75TH		.3	.110	L.003	L.003	.016	4.2	3.0	12.4	75 <sup>e</sup>
90TH		.3	.240	L.003	L.003	.095	4.4	6.	12.9	90 <sup>e</sup>
SECONDARY CODE		01L		56L	56L	06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AL07AB0001 LAT 53 D 9 M 30 S LONG 118 D 2 M 0 S

UTM 11 430900E 5890200 N  
AUG 31 1972 TO A AUG 12 1975

SNAKE INDIAN RIVER ABOUT 1 2 MILES  
ABOVE DEVONA FLATS

	25105L BORON DISSOLVED	13302P ALUMINIUM EXTRBL.	23302P VANADIUM EXTRBL.	24102P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	27102P COBALT EXTRBL.	
SUBM ID	B MG L	AL MG L	V MG L	CR MG L	MN MG L	FE MG L	FE MG L	CO MG L	
SAMPLES(FLAGS) 0417	6(2)			8(8)	8(6)	9(8)	8(2)		ECHANTILLONS(IND.)
LOW	L.02			L.010	L.01	L.04	L.04		MINIMUM
HIGH	.05			L.015	.10	.13	3.50		MAXIMUM
AVERAGE	.03*				.02*	.057*	.56*		MOYENNE
STD.DEV.	.01*				.03*	.028*	1.19*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.02			L.010	L.01	L.05	.05*		25 <sup>e</sup>
MEDIAN 50TH	.03			L.012	L.01	L.05	.16		50 <sup>e</sup> MEDIANE
75TH	.03			L.015	.01*	L.05	.28		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE						04L			CODE DE SECOURS

	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	
SUBM ID	NI MG L	CU MG L	ZN MG L	AS MG L	SE MG L	SR MG L	MO MG L	AG MG L	
SAMPLES(FLAGS) 0417		8(6)	8(3)	5(5)	4(4)			8(8)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.0005	L.0005			L.00	MINIMUM
HIGH		.004	.010	L.0005	L.0005			L.01	MAXIMUM
AVERAGE		.001*	.004*						MOYENNE
STD.DEV.		.001*	.004*						ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.001	L.001	L.0005	L.0005			L.00	25 <sup>e</sup>
MEDIAN 50TH		L.001	.002	L.0005	L.0005			L.01	50 <sup>e</sup> MEDIANE
75TH		.001*	.007	L.0005	L.0005			L.01	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
SUBM ID	CD MG L	BA MG L	HG UG L	TL MG L	PB MG L	PHENOL MG L	MG L	F MG L	
SAMPLES(FLAGS) 0417	8(6)	8(8)	7(7)		8(8)			18(2)	ECHANTILLONS(IND.)
LOW	L.001	L.0	L.05		L.001			L.05	MINIMUM
HIGH	.002	L.1	L.05		L.004			.29	MAXIMUM
AVERAGE	.001*							.15*	MOYENNE
STD.DEV.	.000*							.07*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.001	L.0	L.05		L.001			.09	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.1	L.05		L.002			.14	50 <sup>e</sup> MEDIANE
75TH	.001*	L.1	L.05		L.004			.19	75 <sup>e</sup>
90TH								.25	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AB0001 LAT. 53 D 9 M 30 S LONG. 118 D 2 M 0 S

UTM 11 430900E 5890200 N  
AUG 31, 1972 TO/A NOV 05, 1975SNAKE INDIAN RIVER ABOUT 1.2 MILES  
ABOVE DEVONA FLATS,

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT.DENS. NO/ML	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL		UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417				12(5)	8(8)	1(0)	8(8)	8(8)	ECHANTILLONS(IND.)
LOW				L30.	L.001	.002	L.001	L.002	MINIMUM
HIGH				420.	L.001	.002	L.001	L.002	MAXIMUM
AVERAGE				102.					MOYENNE
STD.DEV.				112.*					ECART-TYPE
PERCNT:10TH				L30.					10 <sup>e</sup> PERCNT
25TH				L30.	L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH				65.	L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH				130.	L.001		L.001	L.002	75 <sup>e</sup>
90TH				170.					90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	8(8)	8(8)	8(8)	8(8)	8(8)	8(8)	8(8)	8(8)	ECHANTILLONS(IND.)
LOW	L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0417	7(7)	8(8)	8(8)	8(8)	8(8)	6(6)	6(6)	6(6)	ECHANTILLONS(IND.)
LOW	L.2	L.01	L.004	L.001	L.006	L.03	L.02	L.055	MINIMUM
HIGH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH	L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.055	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AD0001 LAT. 53 D 24 M 45 S LONG. 117 D 35 M 15 S

UTM 11 461000E 5918100 N  
SEP 01 1966 TO/A MAY 30 1974

## ATHABASCA RIVER AT HINTON, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0001	73(0)	72(0)	73(0)	73(16)	74(1)	74(0)	74(0)	71(0)	ECHANTILLONS(IND.)
LOW	0024	165.	89.	85.4	L5.	L1	7.5	65.1	-.4	MINIMUM
HIGH	0003	450.	264.	234.	70.	180.	8.4	141.	.7	MAXIMUM
AVERAGE		326.	186.	167.2	9.*	23.2*		104.0		MOYENNE
STD.DEV.		94.	59.	50.1	10.*	34.4*		21.4		ECART-TYPE
PERCNT:10TH		193.	103.	96.1	L5.	1.4	7.9	72.4	-.1	10 <sup>e</sup> PERCNT
25TH		225.	123.	113.	5.	3.4	8.0	87.2	.1	25 <sup>e</sup>
MEDIAN 50TH		361.	207.	183.	5.	8.1	8.1	107.0	.3	50 <sup>e</sup> MEDIANE
75TH		412.	240.	215.	10.	27.0	8.2	122.	.5	75 <sup>e</sup>
90TH		436.	249.	221.	20.	70.0	8.3	128.	.6	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0001	73(0)	74(0)	74(0)	73(0)	73(0)	73(0)	73(0)	73(0)	ECHANTILLONS(IND.)
LOW	0003	.2	.6	22.6	4.3	0.	79.	.2	10.0	MINIMUM
HIGH	0024	3.8	8.6	67.8	21.3	0.	172.	1.6	103.	MAXIMUM
AVERAGE		.6	2.0	46.24	12.5	0.	127.	.7	61.4	MOYENNE
STD.DEV.		.4	1.1	13.21	4.6	0.	26.	.4	29.5	ECART-TYPE
PERCNT:10TH		.4	.9	28.0	6.2	0.	88.	.2	21.0	10 <sup>e</sup> PERCNT
25TH		.4	1.1	32.3	7.9	0.	106.	.3	29.0	25 <sup>e</sup>
MEDIAN 50TH		.5	2.2	48.90	13.6	0.	130.	.6	74.0	50 <sup>e</sup> MEDIANE
75TH		.6	2.4	59.4	16.4	0.	149.	.9	87.6	75 <sup>e</sup>
90TH		.7	2.8	61.0	17.7	0.	156.	1.1	94.5	90 <sup>e</sup>
SECONDARY CODE				02L				06L	04L 01L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	08101P OXYGEN DISSOLVED DO	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	MG/L	O2 MG/L	
SAMPLES(FLAGS)	0001	4(4)	65(5)	14(9)	9(7)	14(2)	71(0)	10(1)	1(0)	ECHANTILLONS(IND.)
LOW	0024	L5	L.005	L.002	L.001	L.005	.4	L.5	9.8	MINIMUM
HIGH	0003	L5	.300	.016	.006	.160	6.4	14.0	9.8	MAXIMUM
AVERAGE			.075*	.004*	.002*	.021*	3.51	5.7*		MOYENNE
STD.DEV.			.053*	.004*	.002*	.040*	1.03	4.1*		ECART-TYPE
PERCNT:10TH			.020	L.002		L.005	2.2	.7*		10 <sup>e</sup> PERCNT
25TH		L.5	.036	L.002	L.001	.007	3.0	4.0		25 <sup>e</sup>
MEDIAN 50TH		L.5	.070	L.002	L.001	.010	3.7	5.0		50 <sup>e</sup> MEDIANE
75TH		L.5	.100	.007	L.001	.014	4.1	8.0		75 <sup>e</sup>
90TH			.130	.010		.023	4.5	12.0		90 <sup>e</sup>
SECONDARY CODE		01L	04L	59L 57L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AD0001 LAT. 53 D 24 M 45 S LONG. 117 D 35 M 15 S

UTM 11 461000E 5918100 N  
SEP 01, 1966 TO/A MAY 30, 1974

## ATHABASCA RIVER AT HINTON, ALBERTA

	SUBM ID	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	
		B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS)	0003	3(0)	9(2)	5(5)	9(9)	12(3)	24(15)	9(0)	9(5)	ECHANTILLONS(IND.)
LOW	0001	.02	L.10	L.05	L.010	L.01	L.001	.15	L.001	MINIMUM
HIGH	0024	.04	1.8	L.05	L.010	.06	.050	1.30	L.01	MAXIMUM
AVERAGE	0103	.03	.498*			.02*	.009*	.58	.003*	MOYENNE
STD.DEV.		.01	.575*			.02*	.014*	.46	.004*	ECART-TYPE
PERCNT:10TH						L.01	L.001			10 <sup>e</sup> PERCNT
25TH			.11	L.05	L.010	.01*	L.001	.21	L.001	25 <sup>e</sup>
MEDIAN 50TH		.04	.18	L.05	L.010	.02	L.001	.39	.002	50 <sup>e</sup> MEDIANE
75TH			.57	L.05	L.010	.04	.010	1.00	.003	75 <sup>e</sup>
90TH						.04	.030			90 <sup>e</sup>
SECONDARY CODE				01P		04L			01P	CODE DE SECOURS
	SUBM ID	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	
		NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS)	0103	9(6)	12(6)	12(3)	3(1)		9(0)	8(7)	9(9)	ECHANTILLONS(IND.)
LOW	0003	L.001	L.001	.001	L.0005		.16	L.05	L.01	MINIMUM
HIGH	0001	L.01	L.01	.02	.007		.66	.06	L.01	MAXIMUM
AVERAGE		.004*	.004*	.007*	.0048*		.36	.05*		MOYENNE
STD.DEV.		.004*	.004*	.006*	.0038*		.17	.00*		ECART-TYPE
PERCNT:10TH			L.001	.002						10 <sup>e</sup> PERCNT
25TH		L.001	.001*	.003			.28	L.05	L.01	25 <sup>e</sup>
MEDIAN 50TH		.003	.002	.006	.007		.32	L.05	L.01	50 <sup>e</sup> MEDIANE
75TH		.006	.006*	L.010			.37	L.05	L.01	75 <sup>e</sup>
90TH			L.01	.014						90 <sup>e</sup>
SECONDARY CODE		01P	06L	04P 04L	03L					CODE DE SECOURS
	SUBM ID	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
		CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PHENOL MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS)	0003	9(8)	9(9)	5(5)	5(5)	12(9)	4(2)		35(4)	ECHANTILLONS(IND.)
LOW	0001	L.001	L.1	L.05	L.10	L.001	L.002		.05	MINIMUM
HIGH	0024	L.01	L.1	L.05	L.2	L.01	.011		.28	MAXIMUM
AVERAGE	0103	.003*				.004*	.004*		.13*	MOYENNE
STD.DEV.		.004*				.004*	.004*		.05*	ECART-TYPE
PERCNT:10TH						L.001			.08	10 <sup>e</sup> PERCNT
25TH		L.001	L.1	L.05	L.10	L.001	L.002		L.10	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.1	L.05	L.2	.001*	.002*		.14	50 <sup>e</sup> MEDIANE
75TH		.001	L.1	L.05	L.2	.007*	.007		.16	75 <sup>e</sup>
90TH						L.01			.18	90 <sup>e</sup>
SECONDARY CODE		01P			02P	01L	32P		34L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AD0001 LAT. 53 D 24 M 45 S LONG 117 D 35 M 15 S

UTM 11 461000E 5918100N  
AUG 30 1971 TO/A JAN 24 1973

## ATHABASCA RIVER AT HINTON ALBERTA

	36902F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG C BACT DENS	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO./DL	MF NO./DL	MF NO./DL	NO./ML	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0103					5(5)		5(5)	5(5)	ECHANTILLONS(IND.)
LOW					L.001		L.001	L.002	MINIMUM
HIGH					L.001		L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					L.001		L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH					L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH					L.001		L.001	L.002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P.P-DDT	18010L P.P-TDE	18020L P.P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0103	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	5(5)	ECHANTILLONS(IND.)
LOW 0003	L.002	L.004	L.001	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH	L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P.P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0103	4(4)	5(5)	6(5)	6(5)	5(5)	5(5)	5(5)	4(4)	ECHANTILLONS(IND.)
LOW 0003	L.2	L.012	L.004	L.001	L.006	L.03	L.02	L.055	MINIMUM
HIGH	L.2	L.012	.006	L.018	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE			.004*	.006*					MOYENNE
STD.DEV.			.001*	.007*					ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.200	L.012	L.004	L.001	L.009	L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH	L.200	L.012	L.004	.010	L.009	L.032	L.024	L.057	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AE0001 LAT. 54 D 9 M 9 S LONG. 115 D 43 M 15 S

UTM 11 583600 E 6001100 N  
NOV 27, 1966 TO/A JUN 07, 1974ATHABASCA RIVER AT WHITECOURT,  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM									
SAMPLES(FLAGS)	0001	51(0)	48(0)	50(0)	48(1)	51(0)	51(0)	51(0)	48(0)	ECHANTILLONS(IND.)
LOW		191.	98.	90.7	L5.	.5	7.6	72.6	-.3	MINIMUM
HIGH	0056	4866.	2675.	426.	100.	150.	8.6	216.	1.2	MAXIMUM
AVERAGE	0003	393.	223.	154.5	20.*	22.9		116.8		MOYENNE
STD.DEV.		646.	366.	58.3	17.*	32.3		35.7		ECART-TYPE
PERCNT:10TH		212.	111.	105.0	5.	1.8	7.7	84.3	-.1	10 <sup>e</sup> PERCNT
25TH		233.	127.	117.	10.	4.8	7.9	89.9	.0	25 <sup>e</sup>
MEDIAN 50TH		277.	155.	140.0	18.	14.0	8.1	108.	.2	50 <sup>e</sup> MEDIANE
75TH		392.	214.	175.	25.	28.0	8.2	143.	.4	75 <sup>e</sup>
90TH		440.	253.	217.0	40.	55.0	8.3	165.	.7	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID										
SAMPLES(FLAGS)	0003	51(0)	50(0)	50(0)	49(0)	49(0)	49(0)	50(0)	40(0)	ECHANTILLONS(IND.)
LOW	0001	.2	1.5	24.0	3.5	0.	88.	.5	11.8	MINIMUM
HIGH	0056	9.1	855.	121.	30.1	5.	263.	1420.	147.	MAXIMUM
AVERAGE		.8	22.6	44.5	10.5	0.	141.	32.2	36.6	MOYENNE
STD.DEV.		1.2	120.2	16.8	4.4	1.	44.	200.3	22.6	ECART-TYPE
PERCNT:10TH		.4	2.0	29.4	6.2	0.	99.	.9	18.5	10 <sup>e</sup> PERCNT
25TH		.5	2.5	33.0	8.0	0.	110.	1.4	23.3	25 <sup>e</sup>
MEDIAN 50TH		.6	3.7	40.5	9.6	0.	130.	2.5	31.0	50 <sup>e</sup> MEDIANE
75TH		.8	8.2	51.2	12.6	0.	160.	4.6	45.6	75 <sup>e</sup>
90TH		1.2	12.5	63.1	14.6	0.	211.	9.5	58.9	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15314L PHOSPHORUS TOTAL INORG. PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	
SUBM ID										
SAMPLES(FLAGS)	0001	6(6)	44(8)	12(7)	2(2)	5(4)	5(2)	12(1)	48(0)	ECHANTILLONS(IND.)
LOW		L.5	L.001	L.1	L.002	L.002	L.001	L.005	2.4	MINIMUM
HIGH	0056	L.5	.520	1.9	L.002	.007	.020	.163	8.8	MAXIMUM
AVERAGE	0003		.061*	.3*		.003*	.007*	.023*	4.5	MOYENNE
STD.DEV.			.086*	.5*		.002*	.008*	.044*	1.7	ECART-TYPE
PERCNT:10TH			L.005	L.1				.007	2.7	10 <sup>e</sup> PERCNT
25TH		L.5	.015	L.1		L.002	L.002	.007	3.2	25 <sup>e</sup>
MEDIAN 50TH		L.5	.042	L.1	L.002	L.002	.003	.010	3.8	50 <sup>e</sup> MEDIANE
75TH		L.5	.069	.1		L.002	.011	.014	5.7	75 <sup>e</sup>
90TH			.124	.3				.016	7.6	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AE0001 LAT. 54 D 9M 9 S LONG. 115 D 43M 15 S

UTM 11 583600E 6001100 N  
NOV 27 1966 TO/A JUN 07 1974ATHABASCA RIVER AT WHITECOURT  
ALBERTA

		06001L CARBON TOTAL ORGANIC	08401L OXYGEN CONSUMED	09104L FLUORIDE DISSOLVED	05105L BORON DISSOLVED	03301P LITHIUM EXTRBLE.	13101L ALUMINUM DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	
	SUBM ID	C MG/L	O2 MG/L	F MG/L	B MG/L	LI MG/L	AL MG/L	AL MG/L	V MG/L	
SAMPLES(FLAGS)	0001	9(1)	8(0)	25(4)	5(0)	8(7)	4(0)	11(3)	7(7)	ECHANTILLONS(IND.)
LOW	0003	L.5	.7	L.05	.02	L.005	.01	L.10	L.05	MINIMUM
HIGH	0103	11.0	17.2	.29	.11	.007	.07	1.9	L.05	MAXIMUM
AVERAGE	0056	4.8*	5.3	.12*	.06	.005*	.05	.50*		MOYENNE
STD.DEV.		3.0*	5.3	.05*	.03	.001*	.03	.58*		ECART-TYPE
PERCNT:10TH				.07				L.10		10 <sup>e</sup> PERCNT
25TH		4.0	1.9	.09	.04	L.005	.03	L.10	L.05	25 <sup>e</sup>
MEDIAN 50TH		4.0	3.8	.10	.07	L.005	.05	.21	L.05	50 <sup>e</sup> MEDIANE
75TH		6.0	6.3	.12	.07	L.005	.06	1.0	L.05	75 <sup>e</sup>
90TH				.20				1.0		90 <sup>e</sup>
SECONDARY CODE				05L						CODE DE SECOURS

		24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	33103L ARSENIC DISSOLVED	
	SUBM ID	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	AS MG/L	
SAMPLES(FLAGS)	0103	11(10)	14(5)	17(4)	12(1)	11(6)	11(6)	18(11)	4(3)	ECHANTILLONS(IND.)
LOW	0001	L.010	L.008	L.001	L.05	L.001	L.001	L.001	L.005	MINIMUM
HIGH		.018	.05	.120	1.30	.014	L.01	L.01	.017	MAXIMUM
AVERAGE	0056	.011*	.021*	.030*	.460*	.006*	.005*	.005*	.008*	MOYENNE
STD.DEV.	0003	.002*	.014*	.032*	.372*	.005*	.004*	.004*	.006*	ECART-TYPE
PERCNT:10TH		L.010	L.01	L.001	.07	L.001	L.001	L.001		10 <sup>e</sup> PERCNT
25TH		L.010	L.01	.010	.190	L.001	L.001	.001	L.005	25 <sup>e</sup>
MEDIAN 50TH		L.010	.020	.020	.335	.003	.005	.004	L.005	50 <sup>e</sup> MEDIANE
75TH		L.010	.03	.040	.730	L.01	L.01	L.01	.011*	75 <sup>e</sup>
90TH		L.010	.04	.070	.80	L.01	L.01	L.01		90 <sup>e</sup>
SECONDARY CODE			04L 05P		02L	01P	01P	06L		CODE DE SECOURS

		30104L ZINC DISSOLVED	30305P ZINC EXTRBLE.	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	
	SUBM ID	ZN MG/L	ZN MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	SB MG/L	BA MG/L	
SAMPLES(FLAGS)	0003	6(4)	18(9)	11(0)	10(10)	10(10)	11(9)	5(4)	11(10)	ECHANTILLONS(IND.)
LOW	0103	.003	L.001	.19	L.05	L.01	L.001	.009	L.1	MINIMUM
HIGH	0001	.01	.011	.74	L.05	L.01	L.01	L.50	.1	MAXIMUM
AVERAGE	0056	.009*	.007*	.31			.004*	.302*	.1*	MOYENNE
STD.DEV.		.003*	.004*	.15			.004*	.197*	.0*	ECART-TYPE
PERCNT:10TH			.002	.20	L.05	L.01	L.001		L.1	10 <sup>e</sup> PERCNT
25TH		L.01	.002	.23	L.05	L.01	L.001	L.20	L.1	25 <sup>e</sup>
MEDIAN 50TH		L.010	.008*	.26	L.05	L.01	L.001	L.40	L.1	50 <sup>e</sup> MEDIANE
75TH		L.01	L.01	.31	L.05	L.01	L.01	L.40	L.1	75 <sup>e</sup>
90TH			L.01	.38	L.05	L.01	L.01		L.1	90 <sup>e</sup>
SECONDARY CODE		05L	04P 04L				01P	02P		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AE0001 LAT. 54 D 9 M 9 S LONG. 115 D 43 M 15 S

UTM 11 583600E 6001100 N

SEP 29, 1967 TO/A JAN 16, 1974

ATHABASCA RIVER AT WHITECOURT,  
ALBERTA

		80311P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82101L LEAD DISSOLVED	82302P LEAD EXTRBLE.	92101L URANIUM DISSOLVED	18130L ALDRIN	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
	SUBM ID	HG UG/L	TL MG/L	PB MG/L	PB MG/L	U MG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	6(6)	8(8)	6(6)	11(10)	2(0)	6(6)	6(6)	6(6)	ECHANTILLONS(IND.)
LOW	0001	L.05	L.10	L.01	L.001	.0011	L.001	L.001	L.002	MINIMUM
HIGH	0056	L.05	L.2	L.05	L.05	.0011	L.001	L.001	L.002	MAXIMUM
AVERAGE	0003				.006*	.0011				MOYENNE
STD.DEV.					.015*	.0000				ECART-TYPE
PERCNT:10TH					L.001					10 <sup>e</sup> PERCNT
25TH		L.05	L.10	L.05	L.001		L.001	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.20	L.05	L.001	.0011	L.001	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH		L.05	L.20	L.05	L.001		L.001	L.001	L.002	75 <sup>e</sup>
90TH					.007					90 <sup>e</sup>
SECONDARY CODE			02P	02L	03P					CODE DE SECOURS

		18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	3(3)	6(6)	6(6)	6(6)	5(5)	6(6)	6(6)	6(6)	ECHANTILLONS(IND.)
LOW		L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			L.004	L.002	L.001	L.001	L.003	L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH		L.004	L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH			L.004	L.002	L.001	L.001	L.003	L.001	L.002	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCLO 1254 (PCB'S)	18161L AROCLO 1248 (PCB'S)	18162L AROCLO 1260 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	2(2)	6(6)	3(3)	3(3)	3(3)	6(6)	6(6)	5(5)	ECHANTILLONS(IND.)
LOW	0003	L.2	L.012	L.004	L.001	L.006	L.03	L.02	L.055	MINIMUM
HIGH		L.2	L.012	L.004	L.002	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			L.012				L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH		L.200	L.012	L.004	L.002	L.009	L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH			L.012				L.032	L.024	L.055	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AF0001 LAT. 53 D 9 M 21 S LONG. 117 D 15 M 9 S

UTM 11 483100i 5889400 N  
MAY 09 1971 TO A AUG 19 1975

WAMPUS CREEK NEAR HINTON, ALBERTA

		02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	10301L PH	10301S PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	USIE CM	MG/L	MG/L	PH UNITS	PH UNITS	MG/L	PH UNITS	
SAMPLES(FLAGS)	0020	30(0)	17(0)	25(3)	27(0)	31(0)	18(0)	29(0)	25(3)	ECHANTILLONS(IND.)
LOW		54.	77.	Q28.	25.3	7.4	7.2	23.0	Q-1.5	MINIMUM
HIGH		252.	290.	129.	110.	8.3	8.7	126.	.5	MAXIMUM
AVERAGE		131.	155.	69.*	57.7			64.2		MOYENNE
STD.DEV.		58.	64.	31.*	25.1			31.5		ECART-TYPE
PERCNT:10TH		68.	79.	Q32.	30.4	7.7	7.4	27.7	Q-1.2	10 <sup>e</sup> PERCNT
25TH		83.	111.	47.	38.1	7.7	8.0	43.6	-.9	25 <sup>e</sup>
MEDIAN 50TH		120.	139.	64.	55.0	8.0	8.2	56.2	-.3	50 <sup>e</sup> MEDIANE
75TH		169.	180.	85.	70.3	8.2	8.4	80.3	.1	75 <sup>e</sup>
90TH		227.	275.	119.	98.7	8.2	8.6	119.	.3	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0020	29(0)	29(0)	27(0)	27(0)	28(0)	28(0)	29(0)	29(3)	ECHANTILLONS(IND.)
LOW		.3	2.5	8.1	1.1	0.	28.	.2	L1.0	MINIMUM
HIGH		.9	9.1	34.3	7.5	0.	154.	1.2	9.0	MAXIMUM
AVERAGE		.6	5.1	17.9	3.1	0.	79.	.5	3.0*	MOYENNE
STD.DEV.		.1	2.0	7.8	1.7	0.	39.	.2	1.7*	ECART-TYPE
PERCNT:10TH		.5	2.5	9.2	1.3	0.	34.	.2	L1.0	10 <sup>e</sup> PERCNT
25TH		.5	3.5	11.8	1.9	0.	50.	.4	1.9	25 <sup>e</sup>
MEDIAN 50TH		.6	4.8	16.4	2.7	0.	71.	.4	3.3	50 <sup>e</sup> MEDIANE
75TH		.7	6.2	21.6	3.8	0.	104.	.6	3.7	75 <sup>e</sup>
90TH		.7	8.6	32.0	6.1	0.	145.	.8	4.5	90 <sup>e</sup>
SECONDARY CODE										06L 04L CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	14102L SILICA REACTIVE	25104L MANGANESE DISSOLVED	26102L IRON DISSOLVED	29105L COPPER DISSOLVED	30105L ZINC DISSOLVED	82103L LEAD DISSOLVED	
	SUBM ID	N MG/L	N MG/L	SiO2 MG/L	MN MG/L	FE MG/L	CU MG/L	ZN MG/L	PB MG/L	
SAMPLES(FLAGS)	0020	13(7)	41(9)	27(0)	27(27)	28(1)	28(4)	28(11)	28(20)	ECHANTILLONS(IND.)
LOW		.1	L.001	7.6	L.01	.010	L.001	L.001	L.001	MINIMUM
HIGH		.5	.580	17.5	L.01	.24	.027	.110	.015	MAXIMUM
AVERAGE		.4*	.067*	9.7		.098*	.003*	.007*	.002*	MOYENNE
STD.DEV.		.1*	.120*	1.9		.056*	.005*	.021*	.003*	ECART-TYPE
PERCNT:10TH		.2	L.005	8.1	L.01	.040	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH		.3	.010	8.5	L.01	.050	.001	L.001	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.5	.030	9.3	L.01	.095	.002	.001	L.001	50 <sup>e</sup> MEDIANE
75TH		L.5	.060	10.0	L.01	.130	.003	.003	.003	75 <sup>e</sup>
90TH		.5	.14	11.6	L.01	.17	.004	L.01	.006	90 <sup>e</sup>
SECONDARY CODE										01L 05L 04L 04P 05P 04L 03P CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AF0001** LAT. **53 D 9 M 21 S** LONG. **117 D 15 M 9 S**UTM **11 483100E 5889400 N**  
MAY 09, 1971 TO/A AUG 19, 1975

WAMPUS CREEK NEAR HINTON, ALBERTA

	06001L CARBON TOTAL ORGANIC C	09105L FLUORIDE DISSOLVED F	06532P PHENOLIC MATERIAL MG/L	06551L TANNIN AND LIGNIN MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	REL. UNITS	JTU	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0020	39(0)	27(3)	16(4)	17(1)	32(1)	32(0)	23(2)	23(6)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>2.</b>	<b>L.05</b>	<b>L.002</b>	<b>L.1</b>	<b>L5.</b>	<b>1.6</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>19.</b>	<b>.12</b>	<b>.090</b>	<b>1.5</b>	<b>110.</b>	<b>42.0</b>	<b>106.</b>	<b>95.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>10.5</b>	<b>.08*</b>	<b>.017*</b>	<b>.8*</b>	<b>56.*</b>	<b>14.0</b>	<b>26.*</b>	<b>22.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>4.1</b>	<b>.02*</b>	<b>.024*</b>	<b>.4*</b>	<b>30.*</b>	<b>13.3</b>	<b>35.*</b>	<b>30.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>5.0</b>	<b>L.05</b>	<b>L.002</b>	<b>.3</b>	<b>10.</b>	<b>2.5</b>	<b>1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>8.0</b>	<b>.07</b>	<b>.002*</b>	<b>.5</b>	<b>28.</b>	<b>4.1</b>	<b>3.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>10.0</b>	<b>.08</b>	<b>.005</b>	<b>.8</b>	<b>60.</b>	<b>7.6</b>	<b>6.</b>	<b>4.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>14.0</b>	<b>.09</b>	<b>.026</b>	<b>1.1</b>	<b>80.</b>	<b>23.5</b>	<b>45.</b>	<b>40.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>16.0</b>	<b>.10</b>	<b>.040</b>	<b>1.5</b>	<b>100.</b>	<b>39.0</b>	<b>87.</b>	<b>70.</b>	<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AF0002 LAT. 53 D 9 M 21 S LONG 117 D 14 M 36 S

UTM 11 483700E 5889400N  
MAY 08 1971 TO: A AUG 19 1975

DEERLICK CREEK NEAR HINTON, ALBERTA

	02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	10301L PH	10301S PH	10101L ALKALINITY TOTAL	00201L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	USIE CM	MG/L	CAC03 MG/L	PH UNITS	PH UNITS	CAC03 MG/L	PH UNITS	
SAMPLES(FLAGS) 0020	29(0)	16(0)	26(3)	27(0)	29(0)	18(0)	26(3)		ECHANTILLONS(IND.)
LOW	82.	74.	Q41.	40.1	2.7	3.5	36.0	Q-5.9	MINIMUM
HIGH	236.	260.	124.	106.	8.4	8.7	119.	.6	MAXIMUM
AVERAGE	142.	151.	74.*	66.1			67.9		MOYENNE
STD.DEV.	50.	52.	28.*	21.3			26.9		ECART-TYPE
PERCNT:10TH	85.	104.	44.	42.1	7.7	7.0	37.5	-8	10 <sup>e</sup> PERCNT
25TH	100.	117.	Q55.	49.8	7.8	7.7	45.0	-7	25 <sup>e</sup>
MEDIAN 50TH	132.	140.	68.	60.9	8.0	8.0	62.6	-3	50 <sup>e</sup> MEDIANE
75TH	176.	178.	100.	88.6	8.2	8.4	86.8	.2	75 <sup>e</sup>
90TH	233.	240.	120.	102.	8.3	8.5	117.	.4	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS) 0020	28(0)	28(0)	27(0)	27(0)	28(0)	28(0)	28(0)	28(3)	ECHANTILLONS(IND.)
LOW	.3	2.2	12.2	.7	0.	44.	.1	L1.0	MINIMUM
HIGH	1.5	9.4	34.0	6.7	1.	144.	1.1	9.0	MAXIMUM
AVERAGE	.5	4.9	21.0	3.3	0.	83.	.4	3.2*	MOYENNE
STD.DEV.	.2	2.4	6.4	1.5	0.	33.	.2	1.7*	ECART-TYPE
PERCNT:10TH	.4	2.2	13.8	1.8	0.	46.	.2	L1.0	10 <sup>e</sup> PERCNT
25TH	.4	3.0	16.0	2.3	0.	55.	.3	1.7	25 <sup>e</sup>
MEDIAN 50TH	.5	4.3	19.8	3.1	0.	76.	.4	3.2	50 <sup>e</sup> MEDIANE
75TH	.6	6.3	27.8	3.8	0.	106.	.5	4.0	75 <sup>e</sup>
90TH	.7	9.3	30.8	6.1	0.	143.	.6	5.2	90 <sup>e</sup>

SECONDARY CODE

06L

04L

CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	14102L SILICA REACTIVE	25104L MANGANESE DISSOLVED	26102L IRON DISSOLVED	29105L COPPER DISSOLVED	30105L ZINC DISSOLVED	82103L LEAD DISSOLVED	
SUBM ID	N MG/L	N MG/L	SIO2 MG/L	MN MG/L	FE MG/L	CU MG/L	ZN MG/L	PB MG/L	
SAMPLES(FLAGS) 0020	12(8)	38(7)	27(0)	26(25)	26(1)	27(7)	27(10)	27(19)	ECHANTILLONS(IND.)
LOW	L.1	L.001	7.0	L.01	.040	L.001	L.001	L.001	MINIMUM
HIGH	.6	.350	16.6	.01	.17	.006	.20	.014	MAXIMUM
AVERAGE	.4*	.063*	8.7	.01*	.095*	.002*	.010*	.003*	MOYENNE
STD.DEV.	.1*	.086*	1.8	.00*	.036*	.001*	.038*	.004*	ECART-TYPE
PERCNT:10TH	.2	L.005	7.4	L.01	.050	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	.4	.01	7.8	L.01	.06	L.001	L.001	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.5	.030	8.4	L.01	.095	.001	.002	L.001	50 <sup>e</sup> MEDIANE
75TH	L.5	.070	9.0	L.01	.13	.002	.003	.004	75 <sup>e</sup>
90TH	L.5	.200	9.8	L.01	.14	.004	L.01	.010	90 <sup>e</sup>

SECONDARY CODE

01L

05L

04L 04P

05P

04L 05P

03P

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AF0002** LAT. **53 D 9 M 21 S** LONG. **117 D 14 M 36 S**UTM **11 483700E 5889400 N**  
MAY 08, 1971 TO/A AUG 19, 1975

DEERLICK CREEK NEAR HINTON, ALBERTA

	06001L CARBON TOTAL ORGANIC C	09105L FLUORIDE DISSOLVED F	06532P PHENOLIC MATERIAL MG/L	06551L TANNIN AND LIGNIN LIG.SULPH. MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	REL. UNITS	JTU	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0020	37(0)	26(2)	13(4)	16(0)	30(0)	31(0)	22(5)	22(8)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>4.</b>	<b>L.05</b>	<b>L.002</b>	<b>.1</b>	<b>10.</b>	<b>1.3</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>19.0</b>	<b>.10</b>	<b>.076</b>	<b>1.4</b>	<b>110.</b>	<b>28.0</b>	<b>44.</b>	<b>34.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>10.7</b>	<b>.07*</b>	<b>.022*</b>	<b>.7</b>	<b>55.</b>	<b>9.3</b>	<b>13.*</b>	<b>9.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>3.4</b>	<b>.01*</b>	<b>.026*</b>	<b>.4</b>	<b>27.</b>	<b>7.7</b>	<b>15.*</b>	<b>12.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>6.0</b>	<b>.06</b>	<b>L.002</b>	<b>.3</b>	<b>20.</b>	<b>2.4</b>	<b>L1.</b>	<b>L1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>9.0</b>	<b>.06</b>	<b>L.002</b>	<b>.5</b>	<b>30.</b>	<b>4.0</b>	<b>2.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>11.0</b>	<b>.07</b>	<b>.012</b>	<b>.7</b>	<b>58.</b>	<b>5.7</b>	<b>5.</b>	<b>2.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>13.0</b>	<b>.08</b>	<b>.034</b>	<b>.9</b>	<b>75.</b>	<b>13.0</b>	<b>32.</b>	<b>11.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>14.0</b>	<b>.09</b>	<b>.070</b>	<b>1.3</b>	<b>90.</b>	<b>22.0</b>	<b>37.</b>	<b>30.</b>	<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07AF0003 LAT 53 D 9 M 9 S LONG 117 D 13 M 54 S

UTM 11 484500E 5889100N  
MAY 09 1971 TO A AUG 19 1975

EUNICE CREEK NEAR HINTON, ALBERTA

		02041L SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	10301L PH	10301S PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIF CM	USIF CM	MG L	CACO3 MG L	PH UNITS	PH UNITS	CACO3 MG L	PH UNITS	
SAMPLES(FLAGS)	0020	31(0)	14(0)	27(3)	28(0)	31(0)	17(0)	29(0)	27(3)	ECHANTILLONS(IND.)
LOW		73.	88.	38.	34.7	7.5	7.1	32.5	-1.3	MINIMUM
HIGH		279.	290.	145.	129.	8.4	8.7	144.	.7	MAXIMUM
AVERAGE		152.	176.	79.*	70.1			74.9		MOYENNE
STD.DEV.		61.	64.	33.*	29.1			32.7		ECART-TYPE
PERCNT:10TH		80.	102.	42.	36.9	7.7	7.4	35.7	-.9	10 <sup>e</sup> PERCNT
25TH		103.	140.	Q49.	45.5	7.8	8.1	49.9	-.7	25 <sup>e</sup>
MEDIAN 50TH		141.	156.	73.	66.7	8.0	8.2	69.3	-.1	50 <sup>e</sup> MEDIANE
75TH		196.	230.	106.	90.4	8.2	8.4	93.8	Q.2	75 <sup>e</sup>
90TH		245.	270.	130.	118.	8.3	8.5	128.	.5	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBON. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG L	NA MG L	CA MG L	MG MG L	CO3 MG L	HCO3 MG L	CL MG L	SO4 MG L	
SAMPLES(FLAGS)	0020	29(0)	29(0)	28(0)	28(0)	29(0)	29(0)	29(1)	30(2)	ECHANTILLONS(IND.)
LOW		.3	2.5	11.3	.8	0.	40.	L.1	L.1.0	MINIMUM
HIGH		.8	7.7	39.0	18.0	0.	175.	1.1	9.0	MAXIMUM
AVERAGE		.5	4.9	21.4	4.0	0.	91.	.4*	2.7*	MOYENNE
STD.DEV.		.1	1.7	8.3	3.3	0.	40.	.2*	1.7*	ECART-TYPE
PERCNT:10TH		.4	2.8	12.1	1.5	0.	44.	.1	1.1	10 <sup>e</sup> PERCNT
25TH		.4	3.5	14.4	1.9	0.	61.	.2	1.6	25 <sup>e</sup>
MEDIAN 50TH		.5	5.1	19.6	3.3	0.	84.	.3	2.5	50 <sup>e</sup> MEDIANE
75TH		.6	6.1	25.8	4.8	0.	114.	.4	3.1	75 <sup>e</sup>
90TH		.7	7.3	35.3	7.2	0.	156.	.6	3.3	90 <sup>e</sup>
SECONDARY CODE								06L	04L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	14102L SILICA REACTIVE	25104L MANGANESE DISSOLVED	26102L IRON DISSOLVED	29105L COPPER DISSOLVED	30105L ZINC DISSOLVED	82103L LEAD DISSOLVED	
	SUBM ID	N MG L	N MG L	SiO2 MG L	MN MG L	FE MG L	CU MG L	ZN MG L	PB MG L	
SAMPLES(FLAGS)	0020	13(9)	41(1)	28(0)	27(26)	28(3)	28(8)	28(11)	27(23)	ECHANTILLONS(IND.)
LOW		L.1	L.001	7.3	L.01	.020	L.001	L.001	L.001	MINIMUM
HIGH		L.5	.290	18.6	.01	.17	.005	.022	.012	MAXIMUM
AVERAGE		.4*	.072*	9.5	.01*	.064*	.002*	.003*	.002*	MOYENNE
STD.DEV.		.2*	.066*	2.0	.00*	.035*	.001*	.004*	.002*	ECART-TYPE
PERCNT:10TH		.1	.010	7.9	L.01	.030	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH		.3	.030	8.5	L.01	.045*	L.001	L.001	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.5	.050	9.2	L.01	.050	.001	.001	L.001	50 <sup>e</sup> MEDIANE
75TH		L.5	.10	9.7	L.01	.070	.002	.002	L.001	75 <sup>e</sup>
90TH		L.5	.150	10.4	L.01	.13	.003	.006	.004	90 <sup>e</sup>
SECONDARY CODE		01L	05L		03P	04L 04P	05P	04L 05P		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07AF0003** LAT. **53 D 9 M 9 S** LONG. **117 D 13 M 54 S**UTM **11 484500E 5889100 N**  
MAY 09, 1971 TO/À AUG 19, 1975

EUNICE CREEK NEAR HINTON, ALBERTA

	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	06532P PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	02011L COLOUR APPARENT	02073L TURBIDITY	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
SUBM ID	C MG/L	F MG/L	MG/L	LIG.SULPH. MG/L	REL. UNITS	JTU	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0020	39(0)	26(2)	15(2)	17(1)	32(1)	33(0)	16(2)	16(5)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>2.0</b>	<b>L.05</b>	<b>L.002</b>	<b>L.1</b>	<b>L5.</b>	<b>1.2</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>16.0</b>	<b>.90</b>	<b>.130</b>	<b>1.3</b>	<b>100.</b>	<b>55.0</b>	<b>96.</b>	<b>84.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>8.0</b>	<b>.10*</b>	<b>.031*</b>	<b>.5*</b>	<b>36.*</b>	<b>10.1</b>	<b>32.*</b>	<b>27.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	3.5	.16*	.039*	.4*	26.*	12.3	35.*	31.*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	4.0	.05	L.002	.1	5.	1.5	L1.	L1.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	5.0	.06	.003	.3	15.	2.4	4.	L1.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>8.</b>	<b>.07</b>	<b>.007</b>	<b>.5</b>	<b>30.</b>	<b>4.5</b>	<b>19.</b>	<b>15.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	11.	.08	.055	.7	58.	12.0	57.	49.	<b>75<sup>e</sup></b>
<b>90TH</b>	13.0	.09	.090	1.2	65.	27.0	94.	79.	<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07AG0001 LAT. 54 D 8 M 20 S LONG. 115 D 41 M 50 S

UTM 11 585200E 5999400N  
AUG 28 1966 TO/A AUG 07 1974

## MCLEOD RIVER AT WHITECOURT ALBERTA

SUBM ID		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
		USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0024	61(0)	58(0)	59(0)	60(1)	59(0)	61(0)	61(0)	57(0)	ECHANTILLONS(IND.)
LOW	0001	137.	88.	81.3	15.	.1	7.4	77.6	-.1	MINIMUM
HIGH		525.	292.	238.	120.	300.	8.6	271.	1.2	MAXIMUM
AVERAGE	0004	349.	192.	168.2	23.*	15.1		175.2		MOYENNE
STD.DEV.	0056	99.	55.	44.4	22.*	42.0		51.0		ECART-TYPE
PERCNT:10TH	0003	233.	124.	112.	5.	.9	7.6	116.	.1	10 <sup>e</sup> PERCNT
25TH		270.	147.	135.	10.	2.1	8.0	137.	.4	25 <sup>e</sup>
MEDIAN 50TH		332.	182.	163.	15.	3.2	8.2	166.	.6	50 <sup>e</sup> MEDIANE
75TH		433.	238.	211.	30.	8.8	8.3	219.	.8	75 <sup>e</sup>
90TH		479.	272.	230.	53.	38.0	8.5	248.	1.1	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

SUBM ID		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
		K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0001	60(0)	60(0)	59(0)	11(0)	54(0)	54(0)	60(0)	59(0)	ECHANTILLONS(IND.)
LOW	0024	.3	3.6	23.2	5.2	0.	95.	.3	5.2	MINIMUM
HIGH	0003	3.4	24.8	77.5	16.4	6.	330.	7.0	64.3	MAXIMUM
AVERAGE	0056	1.1	12.8	49.1	11.4	0.	214.	1.0	13.7	MOYENNE
STD.DEV.	0004	.4	5.7	13.0	3.8	1.	65.	1.3	9.9	ECART-TYPE
PERCNT:10TH		.7	6.6	32.0	7.7	0.	139.	.4	8.1	10 <sup>e</sup> PERCNT
25TH		.9	8.5	38.7	8.0	0.	165.	.4	9.1	25 <sup>e</sup>
MEDIAN 50TH		1.0	10.6	48.0	11.7	0.	202.	.6	12.0	50 <sup>e</sup> MEDIANE
75TH		1.2	17.5	60.0	15.2	0.	270.	1.0	13.7	75 <sup>e</sup>
90TH		1.4	21.2	67.8	15.8	2.	304.	1.5	17.4	90 <sup>e</sup>

SECONDARY CODE

01L

06L

04L 01L

CODE DE SECOURS

SUBM ID		07002L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15314L PHOSPHORUS TOTAL INORG. PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	
		N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	
SAMPLES(FLAGS)	0001	7(6)	53(15)	11(6)	17(13)	6(5)	11(5)	10(1)	59(0)	ECHANTILLONS(IND.)
LOW	0024	L.5	L.001	L.1	L.002	L.002	L.001	L.005	2.8	MINIMUM
HIGH		.5	1.27	.2	.010	.007	.085	.062	10.5	MAXIMUM
AVERAGE	0004	.5*	.092*	.1*	.003*	.003*	.012*	.015*	7.2	MOYENNE
STD.DEV.	0003	.0*	.208*	.0*	.002*	.002*	.025*	.017*	1.7	ECART-TYPE
PERCNT:10TH	0056		L.005	L.1	L.002		L.001	.005*	5.0	10 <sup>e</sup> PERCNT
25TH		L.5	L.005	L.1	L.002	L.002	L.001	.006	6.0	25 <sup>e</sup>
MEDIAN 50TH		L.5	.030	L.1	L.002	L.002	.003	.010	7.1	50 <sup>e</sup> MEDIANE
75TH		L.5	.100	.1	L.002	L.002	.016	.016	8.8	75 <sup>e</sup>
90TH			.130	.2	.007		.016	.039	9.1	90 <sup>e</sup>

SECONDARY CODE

01L

06L

55L 59L

64L

13L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AG0001** LAT. **54 D 8 M 20 S** LONG. **115 D 41 M 50 S**

UTM **11 585200E 5999400 N**  
AUG 28, 1966 TO/A AUG 07, 1974

MCLEOD RIVER AT WHITECOURT, ALBERTA

		06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO O2 MG/L	08401L OXYGEN CONSUMED O2 MG/L	06532P PHENOLIC MATERIAL MG/L	06711L CHLORO- PHYLL A MG/L	10711L NTA NITRILOTRI ACETIC AC. H3NTA MG/L	09105L FLUORIDE DISSOLVED F MG/L	05105L BORON DISSOLVED B MG/L	
SAMPLES(FLAGS)	0001	14(0)	1(0)	6(0)	3(0)	3(0)		29(5)	6(0)	ECHANTILLONS(IND.)
LOW	0103	3.0	9.2	.7	.004	.003		L.05	.05	MINIMUM
HIGH	0003	22.0	9.2	12.2	.006	.020		.15	.09	MAXIMUM
AVERAGE	0056	9.8		5.5	.005	.0100		.09*	.07	MOYENNE
STD.DEV.	0004	5.0		3.9	.001	.0089		.03*	.02	ECART-TYPE
PERCNT:10TH		4.0						.05		10 <sup>e</sup> PERCNT
25TH	0024	7.0		3.0				.08	.05	25 <sup>e</sup>
MEDIAN 50TH		9.0		5.5	.004	.007		.09	.07	50 <sup>e</sup> MEDIANE
75TH		11.0		6.1				.10	.07	75 <sup>e</sup>
90TH		17.0						.14		90 <sup>e</sup>
SECONDARY CODE								04L		CODE DE SECOURS

		03101L LITHIUM DISSOLVED LI MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24052L CHROMIUM DISSOLVED CR MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	
SAMPLES(FLAGS)	0001	2(1)	7(1)	11(6)	6(6)	2(2)	11(11)	18(17)	14(7)	ECHANTILLONS(IND.)
LOW	0103	L.005	L.005	L.10	L.05	L.004	L.010	L.01	L.01	MINIMUM
HIGH		.190	.010	.50	L.05	L.004	L.010	.010	.03	MAXIMUM
AVERAGE	0004	.097*	.006*	.194*				.010*	.02*	MOYENNE
STD.DEV.	0003	.131*	.002*	.142*				.000*	.01*	ECART-TYPE
PERCNT:10TH	0056			L.10			L.010	L.01	L.01	10 <sup>e</sup> PERCNT
25TH	0024		.005	L.10	L.05		L.010	L.010	L.01	25 <sup>e</sup>
MEDIAN 50TH		.097*	.006	L.10	L.0500	L.004	L.010	L.010	.01*	50 <sup>e</sup> MEDIANE
75TH			.007	.32	L.05		L.010	L.01	.02	75 <sup>e</sup>
90TH				.36			L.010	L.010	.03	90 <sup>e</sup>
SECONDARY CODE					01P			04L	04L	CODE DE SECOURS

		26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	28101L NICKEL DISSOLVED NI MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0024	23(5)	11(0)	11(6)	2(2)	11(6)	13(8)	18(10)	4(4)	ECHANTILLONS(IND.)
LOW	0001	L.001	L.08	L.001	L.00	L.001	L.001	L.001	L.0005	MINIMUM
HIGH	0103	.100	.78	.015	L.00	L.01	L.01	L.01	L.005	MAXIMUM
AVERAGE	0003	.028*	.229	.006*		.005*	.004*	.005*		MOYENNE
STD.DEV.	0056	.028*	.209	.005*		.004*	.004*	.004*		ECART-TYPE
PERCNT:10TH	0004	L.001	.08	L.001		L.001	L.001	L.001		10 <sup>e</sup> PERCNT
25TH		.010	.09	L.001		L.001	L.001	.002	L.0027	25 <sup>e</sup>
MEDIAN 50TH		.020	.14	.004	L.00	.003	.002	.003	L.0050	50 <sup>e</sup> MEDIANE
75TH		.040	.30	L.01		L.01	L.01	L.01	L.0050	75 <sup>e</sup>
90TH		.060	.36	L.01		L.01	L.01	L.01		90 <sup>e</sup>
SECONDARY CODE			02L	01P		01P	06L	06L	04L	CODE DE SECOURS

These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION 00AL07AG0001 LAT 54 D 8 M 20 S LONG. 115 D 41 M 50 S

UTM 11 585200E 5999400N  
AUG 28 1967 TO A AUG 07 1974

MCLEOD RIVER AT WHITECOURT ALBERTA

		30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	34102L SELENIUM DISSOLVED	38101L STRONTIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	48101L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	
	SUBM ID	ZN MG/L	ZN MG/L	SE MG/L	SR MG/L	SR MG/L	MO MG/L	CD MG/L	CD MG/L	
SAMPLES(FLAGS)	0001	13(5)	18(8)		2(0)	11(0)	10(10)	2(2)	8(6)	ECHANTILLONS(IND.)
LOW	0103	L.001	L.001		.18	.17	L.05	L.00	L.001	MINIMUM
HIGH	0003	.01	.01		.19	.34	L.05	L.00	.002	MAXIMUM
AVERAGE	0003	.005*	.006*		.19	.25			.001*	MOYENNE
STD.DEV.	0004	.004*	.004*		.01	.05			.000*	ECART-TYPE
PERCNT:10TH	0056	.001	L.001			.20	L.0500			10 <sup>e</sup> PERCNT
25TH		.001	.002			.20	L.05		L.001	25 <sup>e</sup>
MEDIAN 50TH		.003	.005		.19	.24	L.0500	L.00	L.001	50 <sup>e</sup> MEDIANE
75TH		L.01	L.01			.30	L.05		.001*	75 <sup>e</sup>
90TH		L.01	L.01			.31	L.0500			90 <sup>e</sup>
SECONDARY CODE		04L	04L							CODE DE SECOURS

		47301P SILVER EXTRBL.	51301P ANTIMONY EXTRBL.	56301P BARIUM EXTRBL.	60311P MERCURY EXTRBL.	81101L THALLIUM DISSOLVED	81301P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	
	SUBM ID	AG MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	TL MG/L	PB MG/L	PB MG/L	
SAMPLES(FLAGS)	0001	11(10)	4(4)	11(7)	6(6)	2(2)	4(4)	13(12)	16(16)	ECHANTILLONS(IND.)
LOW	0103	L.01	L.2	L.1	L.05	L.0	L.2	L.001	L.001	MINIMUM
HIGH	0003	.02	L.5	.1	L.05	L.0	L.2	L.05	L.01	MAXIMUM
AVERAGE	0056	.01*		.1*				.020*		MOYENNE
STD.DEV.	0004	.00*		.0*				.025*		ECART-TYPE
PERCNT:10TH		L.01		L.1				L.001	L.001	10 <sup>e</sup> PERCNT
25TH		L.01	L.3	L.1	L.05		L.2	L.001	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.01	L.4	L.1	L.05	L.0	L.2	L.001	L.001	50 <sup>e</sup> MEDIANE
75TH		L.01	L.4	.1	L.05		L.2	L.05	L.010	75 <sup>e</sup>
90TH		L.01		.1				L.05	L.01	90 <sup>e</sup>
SECONDARY CODE								01L	01L	CODE DE SECOURS

		92101L URANIUM DISSOLVED	18160L AROCLO 1254 (PCB'S)	18161L AROCLO 1248 (PCB'S)	18162L AROCLO 1260 (PCB'S)	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTRABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTRABLE	
	SUBM ID	U MG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	2(0)	4(4)	4(4)	4(4)	13(1)	2(0)	13(5)	2(0)	ECHANTILLONS(IND.)
LOW	0004	.0008	L.03	L.02	L.055	L.1	192.	L.1	25.	MINIMUM
HIGH	0003	.005	L.032	L.024	L.06	123.	200.	106.	169.	MAXIMUM
AVERAGE	0056	.0029				21.*	196.	17.*	97.	MOYENNE
STD.DEV.		.0030				39.*	6.	34.*	102.	ECART-TYPE
PERCNT:10TH						2.		L.1		10 <sup>e</sup> PERCNT
25TH			L.031	L.022	L.055	4.		L.1		25 <sup>e</sup>
MEDIAN 50TH		.0029	L.032	L.024	L.055	5.	196.	2.	97.	50 <sup>e</sup> MEDIANE
75TH			L.032	L.024	L.057	8.		7.		75 <sup>e</sup>
90TH						92.		80.		90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AG0004** LAT. **53 D 35 M 54 S** LONG. **116 D 16 M 9 S**

UTM **11 548400E 5938900 N**  
SEP 13, 1972 TO/A JAN 24, 1974

WOLF CREEK AT HWY 16  
CROSSING, ALBERTA

		02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301S PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>5(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>271.</b>	<b>147.</b>	<b>132.</b>	<b>20.</b>	<b>2.1</b>	<b>7.4</b>	<b>140.</b>	<b>.3</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>438.</b>	<b>242.</b>	<b>195.</b>	<b>35.</b>	<b>5.8</b>	<b>8.4</b>	<b>228.</b>	<b>1.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>351.</b>	<b>194.</b>	<b>164.3</b>	<b>25.</b>	<b>3.6</b>		<b>183.3</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>84.</b>	<b>47.</b>	<b>31.5</b>	<b>9.</b>	<b>2.0</b>		<b>44.0</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>							<b>8.2</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>345.</b>	<b>194.</b>	<b>166.</b>	<b>20.</b>	<b>2.8</b>	<b>8.2</b>	<b>182.</b>	<b>.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>							<b>8.4</b>			<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.6</b>	<b>8.2</b>	<b>46.0</b>	<b>4.2</b>	<b>0.</b>	<b>171.</b>	<b>.4</b>	<b>3.3</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>1.4</b>	<b>19.0</b>	<b>59.0</b>	<b>11.6</b>	<b>0.</b>	<b>278.</b>	<b>1.3</b>	<b>14.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>1.0</b>	<b>13.4</b>	<b>52.0</b>	<b>8.4</b>	<b>0.</b>	<b>224.</b>	<b>.8</b>	<b>8.6</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.4</b>	<b>5.4</b>	<b>6.6</b>	<b>3.8</b>	<b>0.</b>	<b>76.</b>	<b>.5</b>	<b>5.4</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>1.0</b>	<b>13.0</b>	<b>51.0</b>	<b>9.4</b>	<b>0.</b>	<b>224.</b>	<b>.6</b>	<b>8.6</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	06711L CHLORO- PHYLL A MG/L	09105L FLUORIDE DISSOLVED F MG/L	10711P NTA NITRILOTRI ACETIC AC. H3NTA MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>3(2)</b>	<b>3(0)</b>	<b>3(2)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(3)</b>	<b>3(1)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.5</b>	<b>.010</b>	<b>L.005</b>	<b>6.7</b>	<b>5.0</b>	<b>L.001</b>	<b>L.05</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.7</b>	<b>.050</b>	<b>.310</b>	<b>9.2</b>	<b>12.0</b>	<b>L.001</b>	<b>.08</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.6*</b>	<b>.033</b>	<b>.107*</b>	<b>7.9</b>	<b>8.3</b>		<b>.06*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.1*</b>	<b>.021</b>	<b>.176*</b>	<b>1.3</b>	<b>3.5</b>		<b>.02*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.5</b>	<b>.040</b>	<b>L.005</b>	<b>7.7</b>	<b>8.0</b>	<b>L.001</b>	<b>.06</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB BASIN

STATION 00AL07AG0004 LAT 53 D 35 M 54 S LONG 116 D 16 M 9 S

UTM 11 548400 5938900  
JUL 14 1971 TO A JAN 24 1974

WOLF CREEK AT HWY 16  
CROSSING ALBERTA

		25106L LITHIUM EXTRBLE	35106L BORON DISSOLVED	13102P ALUMINIUM EXTRBLE	24302P VANADIUM EXTRBLE	24302P CHROMIUM EXTRBLE	25304P MANGANESE EXTRBLE	26104P IRON EXTRBLE	26104P COBALT EXTRBLE	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	8(5)	4(1)	11(8)	8(8)	11(10)	11(0)	11(0)	11(6)	ECHANTILLONS(IND.)
LOW		L.005	L.02	L.10	L.05	L.010	.02	.20	L.001	MINIMUM
HIGH		.008	.08	2.2	L.05	.013	.09	2.32	L.01	MAXIMUM
AVERAGE		.005*	.06*	.32*		.010*	.03	.50	.005*	MOYENNE
STD.DEV.		.001*	.03*	.63*		.001*	.02	.61	.004*	ECART-TYPE
PERCNT:10TH				L.10		L.010	.02	.27	L.001	10 <sup>e</sup> PERCNT
25TH		L.005	.04*	L.10	L.05	L.010	.02	.27	.001	25 <sup>e</sup>
MEDIAN 50TH		L.005	.07	L.10	L.05	L.010	.02	.33	.003	50 <sup>e</sup> MEDIANE
75TH		.005	.08	.19	L.05	L.010	.03	.40	L.01	75 <sup>e</sup>
90TH				.30		L.010	.04	.45	L.01	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		28302P NICKEL EXTRBLE	29305P COPPER EXTRBLE	30305P ZINC EXTRBLE	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE	42301P MOLYBDENUM EXTRBLE	47301P SILVER EXTRBLE	48301P CADMIUM EXTRBLE	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	11(8)	10(4)	11(2)	7(2)	11(0)	11(11)	11(11)	11(10)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.001	L.005	.09	L.05	L.01	L.001	MINIMUM
HIGH		L.01	.004	.014	.020	.40	L.05	L.01	.02	MAXIMUM
AVERAGE		.005*	.002*	.004*	.0110*	.23			.005*	MOYENNE
STD.DEV.		.004*	.001*	.004*	.0056*	.09			.006*	ECART-TYPE
PERCNT:10TH		L.001	L.001	L.001		.16	L.05	L.01	L.001	10 <sup>e</sup> PERCNT
25TH		L.001	L.001	.002	L.005	.18	L.05	L.01	L.001	25 <sup>e</sup>
MEDIAN 50TH		.004	.001	.003	.011	.21	L.05	L.01	L.001	50 <sup>e</sup> MEDIANE
75TH		L.01	.002	.005	.016	.30	L.05	L.01	L.01	75 <sup>e</sup>
90TH		L.01	.004	.007		.33	L.05	L.01	L.01	90 <sup>e</sup>
SECONDARY CODE						.01L				CODE DE SECOURS

		51301P ANTIMONY EXTRBLE	56301P BARIUM EXTRBLE	80301P MERCURY EXTRBLE	81301P THALLIUM EXTRBLE	82302P LEAD EXTRBLE	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	6(5)	11(8)		8(8)	11(10)				ECHANTILLONS(IND.)
LOW		.010	L.1		L.10	L.001				MINIMUM
HIGH		L.50	.1		L.2	.006				MAXIMUM
AVERAGE		.335*	.1*			.001*				MOYENNE
STD.DEV.		.193*	.0*			.002*				ECART-TYPE
PERCNT:10TH			L.1			L.001				10 <sup>e</sup> PERCNT
25TH		L.20	L.1		L.10	L.001				25 <sup>e</sup>
MEDIAN 50TH		L.400	L.1		L.20	L.001				50 <sup>e</sup> MEDIANE
75TH		L.50	.1		L.20	L.001				75 <sup>e</sup>
90TH			.1			L.001				90 <sup>e</sup>
SECONDARY CODE		.02P			.02P					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AG0007** LAT. **53 D 27M 39 S** LONG. **116 D 37M 6 S**

UTM **11 525400E 5923400 N**  
SEP 13, 1972 TO/A MAY 30, 1974

MCLEOD RIVER SOUTH OF EDSON AT HWY 47,  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301S PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	0103	4(0)	4(0)	4(0)	4(0)	4(0)	6(0)	4(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	<b>213.</b>	<b>110.</b>	<b>102.</b>	<b>8.</b>	<b>1.1</b>	<b>8.2</b>	<b>101.</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>398.</b>	<b>218.</b>	<b>194.</b>	<b>50.</b>	<b>6.0</b>	<b>8.4</b>	<b>189.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>304.</b>	<b>167.</b>	<b>149.0</b>	<b>21.</b>	<b>3.3</b>		<b>144.8</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		76.	44.	37.6	20.	2.4		35.9		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		256.	138.	125.5	9.	1.3	8.2	122.0		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>302.</b>	<b>169.</b>	<b>150.0</b>	<b>13.</b>	<b>3.0</b>	<b>8.2</b>	<b>144.5</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		352.	195.	172.5	33.	5.3	8.3	167.5		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	0003	4(0)	4(0)	4(0)	4(0)	3(0)	3(0)	4(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0103	<b>.6</b>	<b>4.7</b>	<b>31.0</b>	<b>5.7</b>	<b>0.</b>	<b>123.</b>	<b>.6</b>	<b>6.4</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>8.0</b>	<b>8.7</b>	<b>55.0</b>	<b>13.8</b>	<b>0.</b>	<b>230.</b>	<b>1.0</b>	<b>20.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>2.7</b>	<b>7.0</b>	<b>45.5</b>	<b>8.6</b>	<b>0.</b>	<b>177.</b>	<b>.7</b>	<b>15.1</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		3.5	1.7	10.5	3.7	0.	54.	.2	6.2	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.6	5.8	38.0	5.9			.6	10.7	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>1.2</b>	<b>7.3</b>	<b>48.0</b>	<b>7.4</b>	<b>0.</b>	<b>178.</b>	<b>.7</b>	<b>17.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		4.9	8.1	53.0	11.3			.9	19.5	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										06L 01L CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	06711L CHLORO- PHYLL A MG/L	09105L FLUORIDE DISSOLVED F MG/L	10711P NTA NITRILOTRI ACETIC AC. H3NTA MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	0103	4(4)	4(0)	4(3)	4(0)	4(0)	4(2)	4(0)	1(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	<b>L.5</b>	<b>.010</b>	<b>L.005</b>	<b>6.9</b>	<b>3.0</b>	<b>L.001</b>	<b>.06</b>	<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.5</b>	<b>.130</b>	<b>.011</b>	<b>7.3</b>	<b>8.0</b>	<b>.053</b>	<b>.08</b>	<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.078</b>	<b>.006*</b>	<b>.006*</b>	<b>7.1</b>	<b>5.8</b>	<b>.0155*</b>	<b>.08</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>			.051	.003*	.2	2.6	.0252*	.01		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.5	.040	L.005	7.0	3.5	L.0010	.07		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.5</b>	<b>.085</b>	<b>L.005</b>	<b>7.1</b>	<b>6.0</b>	<b>.0040*</b>	<b>.08</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		L.5	.115	.008*	7.2	8.0	.0300	.08		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										02L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB-BASIN

STATION 00AL07AG0007 LAT 53 D 27 M 39 S LONG 116 D 37 M 6 S

UTM 11 525400E 5923400N  
JUL 14 1971 TO A MAY 30 1974

MCLEOD RIVER SOUTH OF EDSON AT HWY 47  
ALBERTA

		23101P LITHIUM EXTRBL.	51051 BORON DISSOLVED	14102P ALUMINUM EXTRBL. AL	23301P VANADIUM EXTRBL. V	24302P CHROMIUM EXTRBL. CR	25304P MANGANESE EXTRBL. MN	26304P IRON EXTRBL. FE	27302P COBALT EXTRBL. CO	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0003	8(7)	5(1)	12(6)	8(8)	12(12)	12(1)	12(0)	12(8)	ECHANTILLONS(IND.)
LOW	0103	L.005	L.02	L.10	L.05	L.010	L.01	.07	L.001	MINIMUM
HIGH		.005	.08	.95	L.05	L.010	.06	1.24	L.01	MAXIMUM
AVERAGE		.005*	.06*	.23*			.02*	.29	.005*	MOYENNE
STD.DEV.		.000*	.02*	.25*			.01*	.32	.004*	ECART-TYPE
PERCNT:10TH				L.10		L.010	.01	.09	L.001	10 <sup>e</sup> PERCNT
25TH		L.005	.05	L.10	L.05	L.010	.01	.13	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.005	.07	.12*	L.05	L.010	.02	.18	.004	50 <sup>e</sup> MEDIANE
75TH		L.005	.07	.23	L.05	L.010	.02	.32	L.010	75 <sup>e</sup>
90TH				.44		L.010	.02	.49	L.01	90 <sup>e</sup>
SECONDARY CODE									01P	CODE DE SECOURS

		28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL. ZN	33103L ARSENIC DISSOLVED AS	38301P STRONTIUM EXTRBL. SR	42301P MOLYBDENUM EXTRBL. MO	47301P SILVER EXTRBL. AG	48302P CADMIUM EXTRBL. CD	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	12(9)	12(5)	12(5)	7(2)	12(0)	11(11)	12(12)	12(11)	ECHANTILLONS(IND.)
LOW	0003	L.001	L.001	L.001	L.0005	.14	L.05	L.01	L.001	MINIMUM
HIGH		L.01	.004	.08	.042	.25	L.05	L.01	L.01	MAXIMUM
AVERAGE		.005*	.002*	.011*	.0146*	.20			.004*	MOYENNE
STD.DEV.		.004*	.001*	.022*	.0135*	.04			.004*	ECART-TYPE
PERCNT:10TH		L.001	L.001	L.001		.17	L.05	L.01	L.001	10 <sup>e</sup> PERCNT
25TH		L.001	L.001	L.001	L.005	.18	L.05	L.01	L.001	25 <sup>e</sup>
MEDIAN 50TH		.005	.001	.003	.012	.20	L.05	L.01	L.001	50 <sup>e</sup> MEDIANE
75TH		L.010	.002	.010	.018	.24	L.05	L.01	L.010	75 <sup>e</sup>
90TH		L.01	.002	.014		.25	L.05	L.01	L.01	90 <sup>e</sup>
SECONDARY CODE				04P	04L	01L			01P	CODE DE SECOURS

		51301P ANTIMONY EXTRBL.	56301P BARIUM EXTRBL.	80301P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	18160L AROCLO 1254 (PCB'S)	18161L AROCLO 1248 (PCB'S)	18162L AROCLO 1260 (PCB'S)	
	SUBM ID	MG/L	BA MG/L	HG MG/L	TL MG/L	PB MG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0003	7(6)	12(10)		8(8)	12(9)	1(1)	1(1)	1(1)	ECHANTILLONS(IND.)
LOW	0103	.012	L.1		L.10	L.001	L.03	L.02	L.06	MINIMUM
HIGH		L.50	.1		L.2	.006	L.03	L.02	L.06	MAXIMUM
AVERAGE		.345*	.1*			.002*				MOYENNE
STD.DEV.		.178*	.0*			.002*				ECART-TYPE
PERCNT:10TH			L.1			L.001				10 <sup>e</sup> PERCNT
25TH		L.20	L.1		L.15	L.001				25 <sup>e</sup>
MEDIAN 50TH		L.4	L.1		L.20	L.001				50 <sup>e</sup> MEDIANE
75TH		L.50	L.1		L.20	.003*				75 <sup>e</sup>
90TH			1			.005				90 <sup>e</sup>
SECONDARY CODE					02P					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07AG0008** LAT. **53 D 35 M 42 S** LONG. **116 D 19 M 0 S**

UTM **11 545200E 5938500 N**  
OCT 12, 1969 TO/A JAN 24, 1974

MCLEOD RIVER AT HWY 16, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301S PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0103	4(0)	4(1)	4(0)	4(0)	4(0)	5(0)	4(0)	4(1)	MINIMUM
HIGH	0056	286.	Q150.	138.	5.	1.0	8.1	142.	Q.4	MAXIMUM
AVERAGE		430.	230.	201.	25.	2.5	8.4	215.	.9	MOYENNE
STD.DEV.		334.	180.*	161.3	15.	1.6		165.8		ECART-TYPE
		65.	35.*	27.5	9.	.7		33.3		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		296.	159.	144.0	8.	1.0	8.2	146.0	.4	25 <sup>e</sup>
MEDIAN 50TH		310.	169.	153.0	15.	1.4	8.3	153.0	.4	50 <sup>e</sup> MEDIANE
75TH		372.	200.	178.5	23.	2.2	8.3	185.5	.6	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0103	4(0)	4(0)	4(0)	4(0)	3(0)	3(0)	4(1)	3(0)	MINIMUM
HIGH	0056	.6	7.1	41.8	7.0	0.	173.	L.1	7.8	MAXIMUM
AVERAGE		1.2	13.0	60.0	12.4	0.	262.	1.3	14.0	MOYENNE
STD.DEV.		.9	9.4	49.4	9.2	0.	208.	.6*	11.9	ECART-TYPE
		.3	2.5	8.0	2.3	0.	47.	.5*	3.6	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.6	7.8	43.4	7.6			.2*		25 <sup>e</sup>
MEDIAN 50TH		.8	8.8	48.0	8.7	0.	190.	.5	14.0	50 <sup>e</sup> MEDIANE
75TH		1.1	11.0	55.5	10.8			1.0		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	06711L CHLORO- PHYLL A MG/L	09105L FLUORIDE DISSOLVED F MG/L	10711P NTA NITRILOTRI ACETIC AC. H3NTA MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0103	4(4)	3(1)	4(2)	4(0)	4(0)	3(2)	4(0)		MINIMUM
HIGH	0056	L.5	L.001	L.005	7.2	5.0	L.001	.07		MAXIMUM
AVERAGE		L.5	.070	.044	8.0	10.0	.005	.08		MOYENNE
STD.DEV.			.027*	.015*	7.6	7.0	.0023*	.08		ECART-TYPE
			.038*	.019*	.3	2.2	.0023*	.01		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.5		L.005	7.4	5.5		.08		25 <sup>e</sup>
MEDIAN 50TH		L.5	.010	.006*	7.6	6.5	L.001	.08		50 <sup>e</sup> MEDIANE
75TH		L.5		.026	7.8	8.5		.08		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB BASIN

STATION 00AL07AG0008 LAT 53 D 35M 42 S LONG. 116 D 19M 0 S

UTM 11 545200E 5938500N  
JUL 14 1971 TO/A JAN 24 1974

MCLEOD RIVER AT HWY 16 ALBERTA

	01001P LITHIUM EXTRBL.	05105L BORON DISSOLVED	11302P ALUMINUM EXTRBL.	23301P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	
UBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS) 0103	7(6)	3(0)	10(6)	7(7)	10(10)	10(5)	10(0)	10(6)	ECHANTILLONS(IND.)
LOW	L.005	.06	L.10	L.05	L.010	L.01	.06	L.001	MINIMUM
HIGH	.005	.07	1.9	L.05	L.010	.09	2.03	L.01	MAXIMUM
AVERAGE	.005*	.07	.29*			.02*	.30	.004*	MOYENNE
STD.DEV.	.000*	.01	.57*			.03*	.61	.004*	ECART-TYPE
PERCNT:10TH			L.10		L.010	L.01	.07	L.001	10 <sup>e</sup> PERCNT
25TH	L.005		L.10	L.05	L.010	L.01	.07	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.005	.07	L.10	L.05	L.010	.01*	.12	.003	50 <sup>e</sup> MEDIANE
75TH	L.005		.12	L.05	L.010	.02	.15	L.01	75 <sup>e</sup>
90TH			1.03		L.010	.06	1.12	L.010	90 <sup>e</sup>
SECONDARY CODE								01P	CODE DE SECOURS

	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48302P CADMIUM EXTRBL.	
SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	
SAMPLES(FLAGS) 0103	10(7)	10(3)	10(3)	5(2)	9(0)	10(10)	10(10)	10(9)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.005	.13	L.05	L.01	L.001	MINIMUM
HIGH	L.01	.003	.015	.018	.33	L.05	L.01	L.01	MAXIMUM
AVERAGE	.005*	.001*	.005*	.0088*	.26			.004*	MOYENNE
STD.DEV.	.004*	.001*	.005*	.0058*	.07			.004*	ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001			L.05	L.01	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	L.001	L.005	.23	L.05	L.01	L.001	25 <sup>e</sup>
MEDIAN 50TH	.005	.001	.002	.005	.25	L.05	L.01	L.001	50 <sup>e</sup> MEDIANE
75TH	L.01	.002	.006	.011	.32	L.05	L.01	L.01	75 <sup>e</sup>
90TH	L.010	.003	.014			L.05	L.01	L.010	90 <sup>e</sup>
SECONDARY CODE	01P							01P	CODE DE SECOURS

	51301P ANTIMONY EXTRBL.	56301P BARIUM EXTRBL.	80301P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM ID	SB MG/L	BA MG/L	HG MG/L	TL MG/L	PB MG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0103	6(5)	10(7)		7(7)	10(9)				ECHANTILLONS(IND.)
LOW	.013	L.1		L.10	L.001				MINIMUM
HIGH	L.50	.1		L.2	.002				MAXIMUM
AVERAGE	.335*	.1*			.001*				MOYENNE
STD.DEV.	.192*	.0*			.000*				ECART-TYPE
PERCNT:10TH		L.1			L.001				10 <sup>e</sup> PERCNT
25TH	L.20	L.1		L.10	L.001				25 <sup>e</sup>
MEDIAN 50TH	L.400	L.1		L.2	L.001				50 <sup>e</sup> MEDIANE
75TH	L.50	.1		L.2	L.001				75 <sup>e</sup>
90TH		.1			.001*				90 <sup>e</sup>
SECONDARY CODE	02P			02P					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07BA0001** LAT. **53 D 7 M 48 S** LONG. **115 D 19 M 30 S**

UTM **11 612100E 5887800 N**  
JUN 20, 1973 TO/A JAN 22, 1974

PEMBINA RIVER BELOW PADDY CREEK,  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301S PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>3(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>278.</b>	<b>150.</b>	<b>137.</b>	<b>20.</b>	<b>1.5</b>	<b>7.9</b>	<b>143.</b>	<b>.3</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>429.</b>	<b>223.</b>	<b>201.</b>	<b>20.</b>	<b>4.0</b>	<b>8.4</b>	<b>220.</b>	<b>.8</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>354.</b>	<b>186.</b>	<b>169.0</b>	<b>20.</b>	<b>2.8</b>		<b>181.5</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>107.</b>	<b>52.</b>	<b>45.3</b>	<b>0.</b>	<b>1.8</b>		<b>54.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>354.</b>	<b>186.</b>	<b>169.0</b>	<b>20.</b>	<b>2.8</b>	<b>8.2</b>	<b>181.5</b>	<b>.6</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>1.0</b>	<b>7.5</b>	<b>41.0</b>	<b>8.4</b>	<b>0.</b>	<b>268.</b>	<b>.8</b>	<b>4.1</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>1.0</b>	<b>13.0</b>	<b>59.0</b>	<b>13.0</b>	<b>0.</b>	<b>268.</b>	<b>1.2</b>	<b>4.9</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>1.0</b>	<b>10.3</b>	<b>50.0</b>	<b>10.7</b>			<b>1.0</b>	<b>4.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.0</b>	<b>3.9</b>	<b>12.7</b>	<b>3.3</b>			<b>.3</b>	<b>.6</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>1.0</b>	<b>10.3</b>	<b>50.0</b>	<b>10.7</b>			<b>1.0</b>	<b>4.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	10711P NTA NITRILOTRI ACETIC AC. H3NTA	
	SUBM ID	N MG/L	N MG/L	P MG/L	SIO2 MG/L	C MG/L	MG/L	F MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>2(2)</b>	<b>2(1)</b>	<b>2(1)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(1)</b>	<b>2(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.5</b>	<b>L.001</b>	<b>L.005</b>	<b>7.3</b>	<b>7.0</b>	<b>L.001</b>	<b>.06</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>L.5</b>	<b>.240</b>	<b>.010</b>	<b>10.0</b>	<b>8.0</b>	<b>.005</b>	<b>.08</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.120*</b>	<b>.007*</b>	<b>8.7</b>	<b>7.5</b>	<b>.0030*</b>	<b>.07</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.169*</b>	<b>.004*</b>	<b>1.9</b>	<b>.7</b>	<b>.0028*</b>	<b>.01</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.5</b>	<b>.120*</b>	<b>.007*</b>	<b>8.6</b>	<b>7.5</b>	<b>.0030*</b>	<b>.07</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB-BASIN

STATION 00AL07BA0001 LAT 53 D 7 M 48 S LONG 115 D 19 M 30 S

UTM 11 612100E 5887800N  
AUG 19 1971 TO A JAN 22 1974

PEMBINA RIVER BELOW PADDY CREEK  
ALBERTA

	01001P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13102P ALUMINUM EXTRBLE.	23101P VANADIUM EXTRBLE.	24102P CHROMIUM EXTRBLE.	25104P MANGANESE EXTRBLE.	26104P IRON EXTRBLE.	27102P COBALT EXTRBLE.	
SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS)	0103	2(1)	2(0)	4(1)	2(2)	4(4)	4(0)	4(2)	ECHANTILLONS(IND.)
LOW	L.005	.02	L.10	L.05	L.010	.01	.13	L.001	MINIMUM
HIGH	.007	.08	.50	L.05	L.010	.07	.73	L.01	MAXIMUM
AVERAGE	.006*	.05	.23*			.03	.41	.004*	MOYENNE
STD.DEV.	.001*	.04	.19*			.03	.26	.004*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			.10*		L.010	.02	.21	.001*	25 <sup>e</sup>
MEDIAN 50TH	.006*	.05	.16	L.05	L.010	.02	.40	.002	50 <sup>e</sup> MEDIANE
75TH			.36		L.010	.05	.62	.006*	75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

01P CODE DE SECOURS

	28102P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	
SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	
SAMPLES(FLAGS)	0103	4(2)	4(1)	4(2)	2(1)	4(0)	4(4)	4(4)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.005	.11	L.05	L.01	L.001	MINIMUM
HIGH	L.01	.003	.020	.030	.30	L.05	L.01	L.01	MAXIMUM
AVERAGE	.005*	.002*	.006*	.0175*	.19				MOYENNE
STD.DEV.	.004*	.001*	.009*	.0177*	.08				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.002*	.001*	L.001		.14	L.05	L.01	L.001	25 <sup>e</sup>
MEDIAN 50TH	.005	.002	.001*	.0175*	.18	L.05	L.01	L.001	50 <sup>e</sup> MEDIANE
75TH	.008*	.003	.011		.25	L.05	L.01	L.005	75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

01L

01P CODE DE SECOURS

	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80301P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	18160L AROCLO 1254 (PCB'S)	18161L AROCLO 1248 (PCB'S)	18162L AROCLO 1260 (PCB'S)	
SUBM ID	SB MG/L	BA MG/L	HG MG/L	TL MG/L	PB MG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	1(1)	4(4)		2(2)	4(4)			ECHANTILLONS(IND.)
LOW	L.50	L.1			L.2	L.001			MINIMUM
HIGH	L.50	L.1			L.2	L.001			MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.1			L.001				25 <sup>e</sup>
MEDIAN 50TH		L.1		L.20	L.001				50 <sup>e</sup> MEDIANE
75TH		L.1			L.001				75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values./Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07BB0003** LAT. **53 D 36 M 18 S** LONG. **115 D 0 M 15 S**UTM **11 632100E 5941200 N**

FEB 10, 1966 TO/A OCT 04, 1977

## PEMBINA RIVER AT ENTWISTLE, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM									
<b>SAMPLES(FLAGS)</b>	0004	99(0)	93(1)	81(0)	96(6)	98(0)	98(0)	98(0)	92(1)	ECHANTILLONS(IND.)
LOW	0056	155.	78.	75.6	15.	.1	7.0	69.6	-.6	MINIMUM
HIGH	0003	710.	322.	273.	180.	900.	8.6	285.	1.2	MAXIMUM
AVERAGE		326.	177.*	154.4	29.*	25.2		162.2		MOYENNE
STD.DEV.		116.	61.*	49.0	30.*	99.0		57.5		ECART-TYPE
PERCNT:10TH		179.	103.	92.9	5.	1.1	7.6	86.0	-.1	10 <sup>e</sup> PERCNT
25TH		226.	124.	111.	10.	2.2	7.8	114.	.1	25 <sup>e</sup>
MEDIAN 50TH		307.	170.	149.	20.	5.3	8.1	158.0	.5	50 <sup>e</sup> MEDIANE
75TH		424.	222.	196.	40.	17.0	8.3	210.	.8	75 <sup>e</sup>
90TH		484.	262.	222.	75.	37.0	8.5	246.	.9	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	0004	97(0)	99(0)	80(0)	17(0)	94(0)	94(0)	97(1)	96(0)	ECHANTILLONS(IND.)
LOW	0056	.5	.6	23.2	2.8	0.	85.	L.1	2.1	MINIMUM
HIGH	0003	5.3	33.0	83.1	24.2	8.	347.	17.0	140.	MAXIMUM
AVERAGE		1.3	12.4	44.3	10.9	0.	198.	1.1*	9.9	MOYENNE
STD.DEV.		.6	6.7	13.7	5.4	1.	71.	1.7*	14.6	ECART-TYPE
PERCNT:10TH		.8	4.9	27.9	4.8	0.	105.	.4	5.0	10 <sup>e</sup> PERCNT
25TH		.9	7.0	32.7	7.3	0.	137.	.6	5.5	25 <sup>e</sup>
MEDIAN 50TH		1.1	10.8	41.6	8.6	0.	195.	.8	7.7	50 <sup>e</sup> MEDIANE
75TH		1.5	18.0	54.3	12.9	0.	257.	1.2	10.0	75 <sup>e</sup>
90TH		2.0	21.6	64.5	17.2	2.	300.	1.7	13.4	90 <sup>e</sup>

SECONDARY CODE

06L

04L 06L 01L CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15314L PHOSPHORUS TOTAL INORG. PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	0004	18(1)	83(23)	28(9)	59(42)	12(6)	43(23)	31(3)	98(0)	ECHANTILLONS(IND.)
LOW	0056	.3	L.001	L.1	L.002	L.002	L.001	.003	2.7	MINIMUM
HIGH	0003	.9	1.50	.4	.050	.013	.066	.089	12.2	MAXIMUM
AVERAGE		.5*	.099*	.2*	.004*	.006*	.005*	.015*	7.4	MOYENNE
STD.DEV.		.1*	.185*	.1*	.007*	.005*	.011*	.016*	1.8	ECART-TYPE
PERCNT:10TH		.3	L.005	L.1	L.002	L.002	L.001	L.005	5.0	10 <sup>e</sup> PERCNT
25TH		.4	L.01	L.1	L.002	L.002	L.001	.007	6.0	25 <sup>e</sup>
MEDIAN 50TH		.5*	.040	.1	L.002	.004*	L.002	.011	7.5	50 <sup>e</sup> MEDIANE
75TH		.5	.113	.2	.003	.010	.003	.017	9.1	75 <sup>e</sup>
90TH		.6	.219	.3	.007	.013	.013	.030	9.7	90 <sup>e</sup>

SECONDARY CODE

01L

06L

55L 59L

64L

13L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07BB0003 LAT. 53 D 36 M 18 S LONG 115 D 0 M 15 S

UTM 11 632100E 5941200 N  
FEB 10 1966 TO/A OCT 04 1977

## PEMBINA RIVER AT ENTWISTLE ALBERTA

		06001L CARBON TOTAL ORGANIC C	08101P OXYGEN DISSOLVED DO O2	08401L OXYGEN CONSUMED O2	06532P PHENOLIC MATERIAL MG/L	06711L CHLORO- PHYLL A MG/L	10711L NTA NITRILOTRI- ACETIC AC. H3NTA MG/L	09105L FLUORIDE DISSOLVED F MG/L	05105L BORON DISSOLVED B MG/L	
SAMPLES(FLAGS)	0004	50(2)	13(0)	17(0)	16(3)	9(6)		84(16)	18(1)	ECHANTILLONS(IND.)
LOW	0056	L.5	5.1	.9	L.001	L.001		L.05	L.02	MINIMUM
HIGH	0003	53.0	12.9	11.8	.029	.007		.26	.30	MAXIMUM
AVERAGE	0103	12.9*	9.2	6.3	.008*	.0040*		.08*	.11*	MOYENNE
STD.DEV.		8.9*	2.2	3.1	.008*	.0023*		.03*	.06*	ECART-TYPE
PERCNT:10TH		4.5	7.2	1.8	L.001			.05	.06	10 <sup>e</sup> PERCNT
25TH		8.0	7.9	4.6	.002*	L.001		.07	.08	25 <sup>e</sup>
MEDIAN 50TH		11.0	8.8	6.1	.004	L.005		.08	.09	50 <sup>e</sup> MEDIANE
75TH		16.0	10.6	8.5	.015	.005		L.10	.13	75 <sup>e</sup>
90TH		19.0	11.9	11.6	.018			.10	.17	90 <sup>e</sup>
SECONDARY CODE					35P			04L		CODE DE SECOURS

		03101L LITHIUM DISSOLVED LI MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24052L CHROMIUM DISSOLVED CR MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	
SAMPLES(FLAGS)	0004	1(1)	7(4)	22(6)	13(10)	1(1)	23(22)	60(55)	47(22)	ECHANTILLONS(IND.)
LOW	0056	L.005	L.005	.015	L.001	L.004	L.010	L.010	L.01	MINIMUM
HIGH	0103	L.005	.012	.91	L.05	L.004	L.015	.11	.32	MAXIMUM
AVERAGE	0003	.006*	.006*	.226*	.0238*	.013*	.012*	.012*	.03*	MOYENNE
STD.DEV.		.003*	.003*	.276*	.0253*	.003*	.013*	.013*	.06*	ECART-TYPE
PERCNT:10TH				.025	L.001		L.010	L.010	L.01	10 <sup>e</sup> PERCNT
25TH			L.005	.066	L.001		L.010	L.010	L.01	25 <sup>e</sup>
MEDIAN 50TH			L.005	L.100	.003		.014	L.010	.01	50 <sup>e</sup> MEDIANE
75TH			.005	.26	L.05		L.015	L.010	.03	75 <sup>e</sup>
90TH				.69	L.05		L.015	L.010	.07	90 <sup>e</sup>
SECONDARY CODE				05P	01P			04L	04L	CODE DE SECOURS

		26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	28101L NICKEL DISSOLVED NI MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0004	71(20)	32(0)	23(14)	1(1)	23(12)	43(11)	53(39)	17(6)	ECHANTILLONS(IND.)
LOW	0103	L.001	.010	L.001	L.00	L.001	L.001	L.001	L.0005	MINIMUM
HIGH	0056	.40	1.72	L.01	L.00	L.01	.047	.05	.017	MAXIMUM
AVERAGE	0003	.048*	.436	.003*		.004*	.004*	.008*	.0033*	MOYENNE
STD.DEV.		.068*	.418	.003*		.003*	.008*	.008*	.0051*	ECART-TYPE
PERCNT:10TH		L.001	.08	L.001		L.001	L.001	L.001	L.0005	10 <sup>e</sup> PERCNT
25TH		.006	.120	L.002		L.002	.001	.002	L.0005	25 <sup>e</sup>
MEDIAN 50TH		.030	.285	.002		.002	.002	L.01	.0006	50 <sup>e</sup> MEDIANE
75TH		.070	.610	.003		.006	.004	L.01	L.005	75 <sup>e</sup>
90TH		.100	1.00	L.01		L.01	.006	L.01	.014	90 <sup>e</sup>
SECONDARY CODE		04L	02L	01P		01P	06L	06L 06P	04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07BB0003 LAT. 53 D 36 M 18 S LONG. 115 D 0 M 15 S

UTM 11 632100 E 5941200 N  
FEB 10, 1966 TO/A OCT 04, 1977

## PEMBINA RIVER AT ENTWISTLE, ALBERTA

		30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	34102L SELENIUM DISSOLVED	38101L STRONTIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	48101L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	
	SUBM ID	ZN MG/L	ZN MG/L	SE MG/L	SR MG/L	MO MG/L	MO MG/L	CD MG/L	CD MG/L	
SAMPLES(FLAGS)	0004	43(14)	50(29)	12(12)	1(0)	23(0)	16(16)	1(1)	20(13)	ECHANTILLONS(IND.)
LOW	0056	L.001	L.001	L.0005	.14	.10	L.05	L.00	L.001	MINIMUM
HIGH	0103	.026	.13	L.0005	.14	.32	L.10	L.00	.002	MAXIMUM
AVERAGE	0003	.004*	.012*			.18			.001*	MOYENNE
STD.DEV.		.005*	.021*			.07			.000*	ECART-TYPE
PERCNT:10TH		L.001	L.001	L.0005		.10	L.05		L.001	10 <sup>e</sup> PERCNT
25TH		L.001	.002	L.0005		.12	L.0500		L.001	25 <sup>e</sup>
MEDIAN 50TH		.003	L.010	L.0005		.17	L.0500		L.001	50 <sup>e</sup> MEDIANE
75TH		.006	L.01	L.0005		.24	L.1000		.001	75 <sup>e</sup>
90TH		L.01	.020	L.0005		.28	L.10		.002	90 <sup>e</sup>
SECONDARY CODE		04L	04L							CODE DE SECOURS

		47301P SILVER EXTRBL.	51301P ANTIMONY EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81101L THALLIUM DISSOLVED	81301P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	
	SUBM ID	AG MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	TL MG/L	PB MG/L	PB MG/L	
SAMPLES(FLAGS)	0004	11(11)	5(5)	23(8)	18(18)	1(1)	5(5)	41(35)	45(39)	ECHANTILLONS(IND.)
LOW	0103	L.01	L.0	.1	L.02	L.0	L.2	L.001	L.001	MINIMUM
HIGH	0056	L.01	L.5	.2	L.05	L.0	L.2	.009	L.01	MAXIMUM
AVERAGE	0003			.1*				.002*	.007*	MOYENNE
STD.DEV.				.0*				.002*	.004*	ECART-TYPE
PERCNT:10TH		L.01		.1	L.02			L.001	L.001	10 <sup>e</sup> PERCNT
25TH		L.01	L.4	.1	L.05		L.2	L.001	L.004	25 <sup>e</sup>
MEDIAN 50TH		L.01	L.4	L.1	L.05		L.2	L.001	L.01	50 <sup>e</sup> MEDIANE
75TH		L.01	L.5	.1	L.05		L.2	L.001	L.01	75 <sup>e</sup>
90TH		L.01		.1	L.05			.004	L.01	90 <sup>e</sup>
SECONDARY CODE					13P				01L	CODE DE SECOURS

		92101L URANIUM DISSOLVED	18160L AROCLOL 1254 (PCB'S)	18161L AROCLOL 1248 (PCB'S)	18162L AROCLOL 1260 (PCB'S)	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
	SUBM ID	U MG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0004		4(4)	4(4)	4(4)	38(0)	1(0)	38(0)	1(0)	ECHANTILLONS(IND.)
LOW	0003		L.03	L.02	L.055	2.	250.	1.	209.	MINIMUM
HIGH	0056		L.032	L.024	L.06	2470.	250.	2270.	209.	MAXIMUM
AVERAGE						182.		166.		MOYENNE
STD.DEV.						469.		434.		ECART-TYPE
PERCNT:10TH						7.		5.		10 <sup>e</sup> PERCNT
25TH			L.030	L.020	L.055	16.		10.		25 <sup>e</sup>
MEDIAN 50TH			L.030	L.020	L.055	50.		45.		50 <sup>e</sup> MEDIANE
75TH			L.031	L.022	L.057	86.		75.		75 <sup>e</sup>
90TH						188.		169.		90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB BASIN

STATION 00AL07BB0007 LAT. 53 D 36 M 57 S LONG 115 D 13 M 48 S

UTM 11 617100 5942000  
MAY 30 1972 JAN 22 1974

LOBSTICK RIVER AT WILDWOOD ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	103015 PH	10101L ALKALINITY TOTAL	00215L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CAC03 MG/L	REL UNITS	JTU	PH UNITS	CAC03 MG/L	PH UNITS	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	3(0)	6(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW	0003	216.	128.	97.0	40.	2.8	7.7	106.	-1	MINIMUM
HIGH		332.	176.	142.	60.	78.0	9.1	161.	.8	MAXIMUM
AVERAGE		261.	146.	114.7	50.	36.3		127.0		MOYENNE
STD.DEV.		62.	26.	24.0	10.	38.3		29.7		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH							8.0			25 <sup>e</sup>
MEDIAN 50TH		235.	133.	105.	50.	28.0	8.2	114.	.1	50 <sup>e</sup> MEDIANE
75TH							8.5			75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONTE (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	2(0)	2(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW	0003	3.0	9.1	31.0	1.8	0.	139.	1.2	6.7	MINIMUM
HIGH		4.5	14.0	42.0	9.0	0.	196.	1.7	15.0	MAXIMUM
AVERAGE		3.6	11.4	37.3	5.2	0.	168.	1.4	10.6	MOYENNE
STD.DEV.		.8	2.5	5.7	3.6	0.	41.	.3	4.2	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		3.2	11.0	39.0	4.8	0.	168.	1.3	10.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	10711P NTA NITRILOTRI- ACETIC AC. H3NTA	
	SUBM ID	N MG/L	N MG/L	P MG/L	SiO2 MG/L	C MG/L	MG/L	F MG/L	MG/L	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)		ECHANTILLONS(IND.)
LOW	0003	1.6	.010	.013	.7	23.0	.007	.05		MINIMUM
HIGH		5.7	.220	.045	3.1	60.0	.100	.09		MAXIMUM
AVERAGE		3.2	.130	.029	1.7	36.3	.0447	.07		MOYENNE
STD.DEV.		2.2	.108	.016	1.3	20.6	.0490	.02		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		2.3	.160	.029	1.2	26.0	.027	.06		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07BB0007** LAT. **53 D 36M 57 S** LONG. **115 D 13M 48 S**

UTM **11 617100E 5942000 N**  
JUL 14, 1971 TO/A JAN 22, 1974

LOBSTICK RIVER AT WILDWOOD, ALBERTA

		03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	CO MG/L	
<b>SAMPLES(FLAGS)</b>	0103	7(0)	4(0)	10(3)	7(7)	10(9)	11(1)	11(0)	11(5)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	.005	.05	L.10	L.05	L.010	L.01	.31	L.001	<b>MINIMUM</b>
<b>HIGH</b>		.010	.12	.81	L.05	.012	.30	3.80	L.01	<b>MAXIMUM</b>
<b>AVERAGE</b>		.007	.08	.35*		.010*	.11*	.90	.005*	<b>MOYENNE</b>
<b>STD.DEV.</b>		.002	.03	.26*		.001*	.10*	1.00	.004*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				L.10		L.010	.04	.38	.002	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.005	.05	L.10	L.05	L.010	.04	.38	.003	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.007	.07	.28	L.05	L.010	.06	.55	.003	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.009	.10	.55	L.05	L.010	.16	.97	L.01	<b>75<sup>e</sup></b>
<b>90TH</b>				.76		.011*	.26	1.10	L.01	<b>90<sup>e</sup></b>
SECONDARY CODE									01P	CODE DE SECOURS

		28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	
<b>SAMPLES(FLAGS)</b>	0103	11(5)	9(4)	11(4)	7(2)	10(0)	10(10)	11(11)	11(10)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	L.001	L.001	L.001	L.005	.12	L.05	L.01	L.001	<b>MINIMUM</b>
<b>HIGH</b>		L.01	.006	.02	.030	.27	L.05	L.01	L.01	<b>MAXIMUM</b>
<b>AVERAGE</b>		.007*	.002*	.006*	.0163*	.19			.004*	<b>MOYENNE</b>
<b>STD.DEV.</b>		.003*	.002*	.007*	.0110*	.04			.005*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.004		L.001		.14	L.05	L.01	L.001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.004	L.001	L.001	L.005	.16	L.05	L.01	L.001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.007	.002	.002	.017	.18	L.05	L.01	L.001	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		L.01	.003	.013	.030	.22	L.05	L.01	L.01	<b>75<sup>e</sup></b>
<b>90TH</b>		L.01		.016		.25	L.05	L.01	L.01	<b>90<sup>e</sup></b>
SECONDARY CODE		01P		04P					01P	CODE DE SECOURS

		51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80301P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	18160L AROCOLOR 1254 (PCB'S)	18161L AROCOLOR 1248 (PCB'S)	18162L AROCOLOR 1260 (PCB'S)	
	SUBM ID	SB MG/L	BA MG/L	HG MG/L	TL MG/L	PB MG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	0103	5(4)	10(9)		8(8)	10(10)				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	.011	L.1		L.10	L.001				<b>MINIMUM</b>
<b>HIGH</b>		L.50	.1		L.2	L.001				<b>MAXIMUM</b>
<b>AVERAGE</b>		.362*	.1*							<b>MOYENNE</b>
<b>STD.DEV.</b>		.203*	.0*							<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			L.1			L.001				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.4	L.1		L.10	L.001				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.40	L.1		L.20	L.001				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		L.50	L.1		L.20	L.001				<b>75<sup>e</sup></b>
<b>90TH</b>			.1*			L.001				<b>90<sup>e</sup></b>
SECONDARY CODE		02P			02P					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB-BASIN

STATION 00AL07BB0009 LAT 53 D 53 M 51 S LONG. 115 D 2 M 21 S

UTM 11 628900E 5973600 N  
JUN 21 1972 TO/A OCT 25 1973

PADDLE RIVER NEAR ROCHEFORT BRIDGE  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	103015 PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USI- CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0103	2(0)	2(0)	2(0)	2(0)	2(0)	5(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW		300.	173.	137.	110.	11.0	7.9	146.	.4	MINIMUM
HIGH		413.	235.	185.	160.	55.0	8.3	208.	.4	MAXIMUM
AVERAGE		357.	204.	161.0	135.	33.0		177.0		MOYENNE
STD.DEV.		80.	44.	33.9	35.	31.1		43.8		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH							8.1			25 <sup>e</sup>
MEDIAN 50TH		357.	204.	161.0	135.	33.0	8.2	177.0	.4	50 <sup>e</sup> MEDIANE
75TH							8.3			75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONAT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0103	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW		3.0	16.0	43.0	7.2	0.	178.	1.1	14.0	MINIMUM
HIGH		3.4	24.0	53.0	12.8	0.	254.	1.8	16.0	MAXIMUM
AVERAGE		3.2	20.0	48.0	10.0	0.	216.	1.4	15.0	MOYENNE
STD.DEV.		.3	5.7	7.1	4.0	0.	53.	.5	1.4	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		3.2	20.0	48.0	10.0	0.	216.	1.4	15.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	10711P NTA NITRILOTRI ACETIC AC H3NTA	
	SUBM ID	N MG/L	N MG/L	P MG/L	SiO2 MG/L	C MG/L	MG/L	F MG/L	MG/L	
SAMPLES(FLAGS)	0103	2(0)	2(1)	2(0)	2(0)	2(0)	2(0)	2(2)		ECHANTILLONS(IND.)
LOW		.8	.001	.014	8.8	21.0	.005	L.05		MINIMUM
HIGH		1.2	.080	.022	9.8	25.0	.017	L.05		MAXIMUM
AVERAGE		1.0	.040*	.018	9.3	23.0	.0110			MOYENNE
STD.DEV.		.3	.056*	.006	.7	2.8	.0085			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.0	.040*	.018	9.3	23.0	.0110	L.05		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07BB0009** LAT. **53 D 53M 51 S** LONG. **115 D 2M 21 S**

UTM **11 628900E 5973600 N**  
AUG 04, 1971 TO/A OCT 25, 1973

PADDLE RIVER NEAR ROCHEFORT BRIDGE.  
ALBERTA

	SUBM ID	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23301P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>5(0)</b>	<b>3(0)</b>	<b>7(0)</b>	<b>4(4)</b>	<b>7(7)</b>	<b>7(0)</b>	<b>6(0)</b>	<b>7(5)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.011</b>	<b>.12</b>	<b>.14</b>	<b>L.05</b>	<b>L.010</b>	<b>.05</b>	<b>.56</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.025</b>	<b>.31</b>	<b>.93</b>	<b>L.05</b>	<b>L.010</b>	<b>.17</b>	<b>2.10</b>	<b>.020</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.019</b>	<b>.19</b>	<b>.61</b>			<b>.10</b>	<b>1.25</b>	<b>.007*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.006</b>	<b>.10</b>	<b>.34</b>			<b>.05</b>	<b>.64</b>	<b>.007*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.015</b>		<b>.18</b>	<b>L.05</b>	<b>L.010</b>	<b>.05</b>	<b>.87</b>	<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.021</b>	<b>.15</b>	<b>.74</b>	<b>L.05</b>	<b>L.010</b>	<b>.08</b>	<b>1.00</b>	<b>.003</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.024</b>		<b>.92</b>	<b>L.05</b>	<b>L.010</b>	<b>.16</b>	<b>2.00</b>	<b>L.01</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE									<b>01P</b>	<b>CODE DE SECOURS</b>

	SUBM ID	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	48302P CADMIUM EXTRBLE. CD MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>7(2)</b>	<b>7(0)</b>	<b>7(1)</b>	<b>1(0)</b>	<b>7(0)</b>	<b>6(6)</b>	<b>7(7)</b>	<b>7(5)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.003</b>	<b>.001</b>	<b>L.001</b>	<b>.009</b>	<b>.23</b>	<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.011</b>	<b>.004</b>	<b>.03</b>	<b>.009</b>	<b>.42</b>	<b>L.05</b>	<b>L.01</b>	<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.008*</b>	<b>.003</b>	<b>.006*</b>		<b>.30</b>			<b>.004*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.003*</b>	<b>.001</b>	<b>.010*</b>		<b>.08</b>			<b>.004*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.007</b>	<b>.002</b>	<b>.002</b>		<b>.23</b>	<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.008</b>	<b>.003</b>	<b>.002</b>		<b>.26</b>	<b>L.05</b>	<b>L.01</b>	<b>.001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.01</b>	<b>.003</b>	<b>.004</b>		<b>.38</b>	<b>L.05</b>	<b>L.01</b>	<b>L.01</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE		<b>01P</b>		<b>04P</b>					<b>01P</b>	<b>CODE DE SECOURS</b>

	SUBM ID	51301P ANTIMONY EXTRBLE. SB MG/L	56301P BARIUM EXTRBLE. BA MG/L	80301P MERCURY EXTRBLE. HG MG/L	81301P THALLIUM EXTRBLE. TL MG/L	82302P LEAD EXTRBLE. PB MG/L	18160L AROCOLOR 1254 (PCB'S)	18161L AROCOLOR 1248 (PCB'S)	18162L AROCOLOR 1260 (PCB'S)	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>4(3)</b>	<b>7(2)</b>		<b>5(5)</b>	<b>7(6)</b>				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.20</b>	<b>L.1</b>		<b>L.10</b>	<b>L.001</b>				<b>MINIMUM</b>
<b>HIGH</b>		<b>L.50</b>	<b>.2</b>		<b>L.2</b>	<b>.006</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.375*</b>	<b>.1*</b>			<b>.002*</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.126*</b>	<b>.0*</b>			<b>.002*</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.300*</b>	<b>L.1</b>		<b>L.10</b>	<b>L.001</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.400</b>	<b>.1</b>		<b>L.2</b>	<b>L.001</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.450</b>	<b>.1</b>		<b>L.2</b>	<b>L.001</b>				<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE					<b>02P</b>					<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07BC0001 LAT 54 D 27 M 6 S LONG 113 D 59 M 30 S

UTM 12 306100E 6037600N  
AUG 03 1967 TO A OCT 05 1977

PEMBINA RIVER AT JARVIE ALBERTA

		02041L SPECIFIC CONDUCT.	00201L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02071L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CALCO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0001	86(0)	85(1)	77(0)	86(1)	86(0)	87(0)	87(0)	85(1)	ECHANTILLONS(IND.)
LOW	0033	185.	112.	88.1	15.	1.4	7.0	78.5	-1.0	MINIMUM
HIGH		880.	425.	341.	150.	375.	8.6	393.	1.3	MAXIMUM
AVERAGE	0056	353.	192.*	162.4	45.*	29.0		171.7		MOYENNE
STD.DEV.	0103	124.	68.*	55.5	32.*	51.7		66.9		ECART-TYPE
PERCNT:10TH	0003	223.	121.	102.	10.	3.3	7.5	98.3	-.2	10 <sup>e</sup> PERCNT
25TH		259.	140.	120.	20.	4.5	7.7	123.	.1	25 <sup>e</sup>
MEDIAN 50TH		313.	174.	149.	40.	11.5	8.0	152.	.4	50 <sup>e</sup> MEDIANE
75TH		439.	240.	200.	60.	28.	8.2	217.	.6	75 <sup>e</sup>
90TH		520.	292.	246.	80.	80.	8.3	271.	1.0	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0001	87(0)	86(0)	87(0)	78(0)	85(0)	85(0)	87(0)	86(1)	ECHANTILLONS(IND.)
LOW	0033	.4	5.1	26.3	1.3	0.	96.	.2	11.0	MINIMUM
HIGH	0103	7.3	46.2	94.9	26.8	7.	479.	3.3	35.2	MAXIMUM
AVERAGE	0056	2.5	14.2	47.54	10.2	0.	208.	1.1	13.5*	MOYENNE
STD.DEV.		1.2	7.3	14.92	4.9	1.	82.	.6	5.8*	ECART-TYPE
PERCNT:10TH	0033	1.4	7.4	31.9	5.1	0.	120.	.4	6.5	10 <sup>e</sup> PERCNT
25TH		1.7	8.7	35.9	7.1	0.	150.	.7	9.6	25 <sup>e</sup>
MEDIAN 50TH		2.4	12.0	43.4	8.9	0.	183.	1.0	13.0	50 <sup>e</sup> MEDIANE
75TH		2.9	18.0	59.3	13.0	0.	265.	1.3	15.2	75 <sup>e</sup>
90TH		3.6	24.0	69.4	16.4	0.	330.	2.0	20.	90 <sup>e</sup>

SECONDARY CODE

03L 06L 04L 06L 01L CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	08101P OXYGEN DISSOLVED DO	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	MG/L	O2 MG/L	
SAMPLES(FLAGS)	0001	17(0)	72(10)	18(3)	12(0)	22(2)	86(0)	26(0)	12(0)	ECHANTILLONS(IND.)
LOW	0033	.5	L.005	L.002	.003	L.005	.3	7.0	2.0	MINIMUM
HIGH	0056	1.5	2.00	.190	.284	.40	12.	40.	11.0	MAXIMUM
AVERAGE	0003	.9	.203*	.022*	.044	.087*	6.83	18.5	7.9	MOYENNE
STD.DEV.		.3	.352*	.045*	.078	.111*	2.44	7.7	2.9	ECART-TYPE
PERCNT:10TH	0103	.5	L.01	L.002	.006	.007	4.1	10.	2.8	10 <sup>e</sup> PERCNT
25TH		.6	.020	.003	.008	.015	5.3	14.0	7.0	25 <sup>e</sup>
MEDIAN 50TH		.8	.094	.007	.013	.055	6.65	16.0	8.5	50 <sup>e</sup> MEDIANE
75TH		1.0	.200	.013	.046	.104	8.2	23.	10.0	75 <sup>e</sup>
90TH		1.4	.470	.065	.072	.25	10.7	29.0	10.9	90 <sup>e</sup>

SECONDARY CODE

01L 05L 57L 59L 64L 06L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07BC0001** LAT. **54 D 27M 6 S** LONG. **113 D 59M 30 S**UTM **12 306100E 6037600 N**  
AUG 03, 1967 TO/A OCT 05, 1977

PEMBINA RIVER AT JARVIE, ALBERTA

		05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0003</b>	<b>18(0)</b>	<b>22(3)</b>	<b>13(8)</b>	<b>23(22)</b>	<b>28(4)</b>	<b>24(1)</b>	<b>23(0)</b>	<b>22(14)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0001</b>	<b>.06</b>	<b>.017</b>	<b>L.001</b>	<b>L.010</b>	<b>L.01</b>	<b>L.001</b>	<b>.25</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0103</b>	<b>.20</b>	<b>5.2</b>	<b>L.05</b>	<b>.020</b>	<b>.34</b>	<b>.130</b>	<b>7.1</b>	<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>0056</b>	<b>.11</b>	<b>.665*</b>	<b>.0248*</b>	<b>.013*</b>	<b>.09*</b>	<b>.053*</b>	<b>1.66</b>	<b>.003*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>0033</b>	<b>.04</b>	<b>1.199*</b>	<b>.0244*</b>	<b>.003*</b>	<b>.08*</b>	<b>.042*</b>	<b>1.84</b>	<b>.003*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.07</b>	<b>.035</b>	<b>L.001</b>	<b>L.010</b>	<b>L.01</b>	<b>.010</b>	<b>.44</b>	<b>L.001</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.09</b>	<b>L.10</b>	<b>.002</b>	<b>L.010</b>	<b>.04</b>	<b>.010</b>	<b>.52</b>	<b>L.002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.11</b>	<b>.240</b>	<b>.013</b>	<b>L.015</b>	<b>.07</b>	<b>.050</b>	<b>.92</b>	<b>.002*</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.14</b>	<b>.65</b>	<b>L.05</b>	<b>L.015</b>	<b>.11</b>	<b>.080</b>	<b>2.50</b>	<b>.004</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.16</b>	<b>1.1</b>	<b>L.05</b>	<b>L.015</b>	<b>.21</b>	<b>.12</b>	<b>4.30</b>	<b>L.01</b>	<b>90<sup>e</sup></b>
SECONDARY CODE			05P	01P		04L	04L	04L	01P	CODE DE SECOURS

		28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>22(9)</b>	<b>30(9)</b>	<b>30(12)</b>	<b>18(6)</b>	<b>12(11)</b>	<b>23(0)</b>	<b>17(17)</b>	<b>11(11)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0003</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>L.0005</b>	<b>.13</b>	<b>L.05</b>	<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.016</b>	<b>.013</b>	<b>.160</b>	<b>.032</b>	<b>.0006</b>	<b>.41</b>	<b>L.10</b>	<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>0001</b>	<b>.006*</b>	<b>.005*</b>	<b>.013*</b>	<b>.0051*</b>	<b>.0005*</b>	<b>.23</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>0033</b>	<b>.004*</b>	<b>.004*</b>	<b>.029*</b>	<b>.0089*</b>	<b>.0000*</b>	<b>.08</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>0056</b>	<b>L.002</b>	<b>.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>L.0005</b>	<b>.15</b>	<b>L.05</b>	<b>L.01</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.002</b>	<b>.002</b>	<b>.001</b>	<b>L.0005</b>	<b>L.0005</b>	<b>.15</b>	<b>L.05</b>	<b>L.01</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.004</b>	<b>.004</b>	<b>.004</b>	<b>.0007</b>	<b>L.0005</b>	<b>.19</b>	<b>L.05</b>	<b>L.01</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.009</b>	<b>L.01</b>	<b>L.01</b>	<b>L.005</b>	<b>L.0005</b>	<b>.30</b>	<b>L.10</b>	<b>L.01</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>L.01</b>	<b>.010</b>	<b>.030</b>	<b>.020</b>	<b>L.0005</b>	<b>.33</b>	<b>L.10</b>	<b>L.01</b>	<b>90<sup>e</sup></b>
SECONDARY CODE		01P	06L	04P 04L	03L					CODE DE SECOURS

		48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
	SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PHENOL MG/L	CN MG/L	F MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0003</b>	<b>23(18)</b>	<b>23(6)</b>	<b>18(18)</b>	<b>7(7)</b>	<b>30(27)</b>	<b>16(2)</b>	<b>9(6)</b>	<b>43(8)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0103</b>	<b>L.001</b>	<b>.1</b>	<b>L.02</b>	<b>L.10</b>	<b>L.001</b>	<b>L.001</b>	<b>L.005</b>	<b>L.05</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0001</b>	<b>L.01</b>	<b>.2</b>	<b>L.05</b>	<b>L.2</b>	<b>L.01</b>	<b>.018</b>	<b>.011</b>	<b>.25</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>0056</b>	<b>.002*</b>	<b>.1*</b>			<b>.005*</b>	<b>.007*</b>	<b>.006*</b>	<b>.09*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>0033</b>	<b>.003*</b>	<b>.0*</b>			<b>.004*</b>	<b>.005*</b>	<b>.002*</b>	<b>.04*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.001</b>	<b>.1</b>	<b>L.02</b>		<b>L.001</b>	<b>.001</b>		<b>.06</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.001</b>	<b>L.1</b>	<b>L.05</b>	<b>L.10</b>	<b>L.001</b>	<b>.002*</b>	<b>L.005</b>	<b>.08</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.001</b>	<b>.1</b>	<b>L.05</b>	<b>L.2</b>	<b>L.004</b>	<b>.007</b>	<b>L.005</b>	<b>.08</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.001</b>	<b>.1</b>	<b>L.05</b>	<b>L.2</b>	<b>L.01</b>	<b>.010</b>	<b>.005</b>	<b>L.10</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>L.01</b>	<b>.1</b>	<b>L.05</b>		<b>L.010</b>	<b>.015</b>		<b>.13</b>	<b>90<sup>e</sup></b>
SECONDARY CODE		01P		13P	02P	01L 01P	32P		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB-BASIN

STATION 00AL07BC0001 LAT. 54 D 27 M 6 S LONG 113 D 59 M 30 S

UTM 12 306100E 6037600 N  
JUN 04 1975 TO/A OCT 05 1977

PEMBINA RIVER AT JARVIE ALBERTA

	16002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG C BACT DENS	18110L ALDRIN	18075L ALPHA- BHC	18070L GAMMA BHC (LINDANE)	18150L HEGD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	NO/ML	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0003						8(0)	9(7)		ECHANTILLONS(IND.)
LOW						.001	L.001		MINIMUM
HIGH						.007	.001		MAXIMUM
AVERAGE						.004	.001*		MOYENNE
STD.DEV.						.002	.000*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH						.002	L.001		25 <sup>e</sup>
MEDIAN 50TH						.003	L.001		50 <sup>e</sup> MEDIANE
75TH						.005	L.001		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0003	5(5)								ECHANTILLONS(IND.)
LOW	L.004								MINIMUM
HIGH	L.004								MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.004								25 <sup>e</sup>
MEDIAN 50TH	L.004								50 <sup>e</sup> MEDIANE
75TH	L.004								75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCLO 1254 (PCB'S)	18161L AROCLO 1248 (PCB'S)	18162L AROCLO 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0003	9(9)		5(4)	5(4)	5(5)	15(15)	15(15)	15(14)	ECHANTILLONS(IND.)
LOW	L.2		L.004	L.002	L.009	L.002	L.002	L.005	MINIMUM
HIGH	L.2		.09	.04	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE			.021*	.010*				.048*	MOYENNE
STD.DEV.			.038*	.017*				.022*	ECART-TYPE
PERCNT:10TH						L.002	L.002	L.005	10 <sup>e</sup> PERCNT
25TH	L.2		L.004	L.002	L.009	L.03	L.02	L.055	25 <sup>e</sup>
MEDIAN 50TH	L.2		L.004	L.002	L.009	L.03	L.02	L.06	50 <sup>e</sup> MEDIANE
75TH	L.2		L.004	L.002	L.009	L.03	L.02	L.06	75 <sup>e</sup>
90TH						L.03	L.02	L.06	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07BD0002** LAT. **54 D 19 M 12 S** LONG. **114 D 47 M 0 S**UTM **11 644200E 6021200 N**  
AUG 21 1973 TO/A JAN 09 1974ATHABASCA RIVER AT HWY 18, NEAR FORT  
ASSINIBOINE, ALBERTA

	SUBM ID	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
		USIE/CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	0103	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>232.</b>	<b>125.</b>	<b>118.</b>	<b>25.</b>	<b>6.4</b>	<b>8.0</b>	<b>100.</b>	<b>.1</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>323.</b>	<b>178.</b>	<b>160.</b>	<b>35.</b>	<b>67.0</b>	<b>8.2</b>	<b>132.</b>	<b>.4</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>272.</b>	<b>148.</b>	<b>133.0</b>	<b>30.</b>	<b>33.5</b>		<b>112.0</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>47.</b>	<b>27.</b>	<b>23.4</b>	<b>5.</b>	<b>30.8</b>		<b>17.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>260.</b>	<b>141.</b>	<b>121.</b>	<b>30.</b>	<b>27.0</b>	<b>8.1</b>	<b>104.</b>	<b>.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

	SUBM ID	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
		K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	0103	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.4</b>	<b>3.8</b>	<b>36.0</b>	<b>3.7</b>	<b>0.</b>	<b>122.</b>	<b>1.6</b>	<b>16.0</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.6</b>	<b>6.7</b>	<b>58.0</b>	<b>7.6</b>	<b>0.</b>	<b>161.</b>	<b>2.9</b>	<b>27.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.5</b>	<b>5.3</b>	<b>43.67</b>	<b>5.8</b>	<b>0.</b>	<b>137.</b>	<b>2.3</b>	<b>23.3</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.1</b>	<b>1.5</b>	<b>12.42</b>	<b>2.0</b>	<b>0.</b>	<b>21.</b>	<b>.7</b>	<b>6.4</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.5</b>	<b>5.5</b>	<b>37.0</b>	<b>6.2</b>	<b>0.</b>	<b>127.</b>	<b>2.4</b>	<b>27.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE									04L	CODE DE SECOURS

	SUBM ID	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	
		N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	O2 MG/L	
<b>SAMPLES(FLAGS)</b>	0103	3(2)	3(1)			3(1)	3(0)	3(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.5</b>	<b>L.001</b>			<b>L.005</b>	<b>4.3</b>	<b>6.0</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.6</b>	<b>.050</b>			<b>.066</b>	<b>6.7</b>	<b>7.0</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.5*</b>	<b>.020*</b>			<b>.026*</b>	<b>5.37</b>	<b>6.3</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.1*</b>	<b>.026*</b>			<b>.034*</b>	<b>1.22</b>	<b>.6</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.5</b>	<b>.010</b>			<b>.008</b>	<b>5.1</b>	<b>6.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE		01L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07BD0002 LAT 54 D 19 M 12 S LONG 114 D 47 M 0 S

UTM 11 644200E 6021200 N  
JUL 22 1971 TO A JAN 09 1974ATHABASCA RIVER AT HWY 18 NEAR FORT  
ASSINIBOINE ALBERTA

		05105L BORON DISSOLVED	13402P ALUMINUM EXTRBLE.	23102P VANADIUM EXTRBLE.	24102P CHROMIUM EXTRBLE.	25104P MANGANESE EXTRBLE.	26102P IRON DISSOLVED	26104P IRON EXTRBLE.	27102P COBALT EXTRBLE.	
	SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS)	0103	4(1)	8(1)	5(5)	8(8)	8(0)		8(0)	8(4)	ECHANTILLONS(IND.)
LOW		L.02	L.10	L.05	L.010	.01		.23	L.001	MINIMUM
HIGH		.05	1.9	L.05	L.010	.06		1.60	L.01	MAXIMUM
AVERAGE		.04*	.571*			.03		.74	.004*	MOYENNE
STD.DEV.		.01*	.664*			.02		.55	.004*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.03*	.120	L.05	L.010	.02		.27	.002*	25 <sup>e</sup>
MEDIAN 50TH		.04	.330	L.05	L.010	.02		.55	.003	50 <sup>e</sup> MEDIANE
75TH		.05	.835	L.05	L.010	.05		1.24	.007*	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P					01P	CODE DE SECOURS

		28102P NICKEL EXTRBLE.	29105P COPPER EXTRBLE.	30105P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38101P STRONTIUM EXTRBLE.	42101P MOLYBDENUM EXTRBLE.	47101P SILVER EXTRBLE.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS)	0103	8(6)	7(3)	8(2)	4(2)		8(0)	8(8)	8(8)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.001	L.005		.25	L.05	L.01	MINIMUM
HIGH		L.01	.002	.02	.016		.54	L.05	L.01	MAXIMUM
AVERAGE		.004*	.001*	.005*	.0082*		.37			MOYENNE
STD.DEV.		.004*	.001*	.006*	.0053*		.12			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.001	L.001	.001*	L.0050		.26	L.05	L.01	25 <sup>e</sup>
MEDIAN 50TH		.002*	.001	.003	.0060*		.37	L.05	L.01	50 <sup>e</sup> MEDIANE
75TH		.007*	.002	.006	.0115		.46	L.05	L.01	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01P		04P	03L					CODE DE SECOURS

		18102P CADMIUM EXTRBLE.	56101P BARIUM EXTRBLE.	80111P MERCURY EXTRBLE.	81101P THALLIUM EXTRBLE.	82102P LEAD EXTRBLE.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
	SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PHENOL MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS)	0103	8(7)	8(8)	4(4)	5(5)	8(7)			3(1)	ECHANTILLONS(IND.)
LOW		L.001	L.1	L.05	L.10	L.001			L.05	MINIMUM
HIGH		L.01	L.1	L.05	L.2	L.01			.09	MAXIMUM
AVERAGE		.003*				.003*			.08*	MOYENNE
STD.DEV.		.004*				.003*			.02*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.001	L.1	L.05	L.10	L.001				25 <sup>e</sup>
MEDIAN 50TH		L.001	L.1	L.05	L.10	L.001			.09	50 <sup>e</sup> MEDIANE
75TH		.005*	L.1	L.05	L.2	.003*				75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01P			02P	01P				CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07BD0002** LAT. **54 D 19M 12 S** LONG. **114 D 47M 0 S**

UTM **11 644200E 6021200 N**  
FEB 07, 1973 TO/A FEB 07, 1973

ATHABASCA RIVER AT HWY 18, NEAR FORT  
ASSINIBOINE, ALBERTA

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT.DENS.	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO/DL	MF NO/DL	MF NO/DL	NO/ML	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0103					<b>1(1)</b>		<b>1(1)</b>	<b>1(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>MINIMUM</b>
<b>HIGH</b>					<b>L.001</b>		<b>L.001</b>	<b>L.002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>									<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>									<b>CODE DE SECOURS</b>

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0103	<b>1(0)</b>	<b>1(1)</b>	<b>1(1)</b>	<b>1(1)</b>	<b>1(1)</b>	<b>1(1)</b>	<b>1(1)</b>	<b>1(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.044</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.044</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>									<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>									<b>CODE DE SECOURS</b>

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0103	<b>1(1)</b>	<b>1(1)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(1)</b>	<b>1(1)</b>	<b>1(1)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.2</b>	<b>L.012</b>	<b>.018</b>	<b>.010</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>L.2</b>	<b>L.012</b>	<b>.018</b>	<b>.010</b>	<b>L.009</b>	<b>L.032</b>	<b>L.024</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>									<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>									<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07BD0004 LAT 55 D 5M 33 S LONG 114 D 5M 6 S

UTM 11 686000E 6108800 N  
SEP 30 1969 TO A JAN 09 1974

ATHABASCA RIVER NEAR HONDO ALBERTA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10663L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	CALCO3 MG/L	REL. UNITS	JTU	PH UNITS	CALCO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0056	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW	0103	227.	126.	114.	30.	20.0	8.0	97.0	MINIMUM
HIGH		287.	156.	139.	40.	25.0	8.2	126.	MAXIMUM
AVERAGE		253.	136.	123.0	37.	22.0	107.0		MOYENNE
STD.DEV.		31.	17.	13.9	6.	2.6	16.5		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		245.	127.	116.	40.	21.0	8.0	98.0	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW	0056	.5	4.0	34.0	5.7	0.	118.	1.4	18.0
HIGH		.9	6.5	40.6	9.1	0.	154.	1.8	21.5
AVERAGE		.6	5.4	37.20	7.3	0.	130.	1.6	19.8
STD.DEV.		.2	1.3	3.30	1.7	0.	20.	.2	1.8
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		.5	5.6	37.0	7.1	0.	119.	1.6	20.0
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE								04L	CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	O2 MG/L	
SAMPLES(FLAGS)	0056	3(2)	3(0)	1(1)		3(1)	3(0)		ECHANTILLONS(IND.)
LOW	0103	L.5	.015	L.002		L.005	4.6	3.0	MINIMUM
HIGH		.5	.060	L.002		.033	6.5	8.0	MAXIMUM
AVERAGE		.5*	.031			.016*	5.30	5.7	MOYENNE
STD.DEV.		.0*	.025			.015*	1.04	2.5	ECART-TYPE
PERCNT 10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		L.5	.018			.010	4.8	6.0	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		01L	05L	57L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07BD0004 LAT. 55 D 5M 33 S LONG. 114 D 5M 6 S

UTM 11 686000E 6108800 N  
SEP 30, 1969 TO/A JAN 09, 1974

## ATHABASCA RIVER NEAR HONDO, ALBERTA

		05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS)	0056	3(0)	6(1)	4(3)	7(6)	7(2)	1(0)	6(0)	7(3)	ECHANTILLONS(IND.)
LOW	0103	.04	L.10	L.05	L.010	L.01	.060	.10	L.001	MINIMUM
HIGH		.30	4.2	.09	.020	.60	.060	15.5	.019	MAXIMUM
AVERAGE		.13	1.300*	.0600*	.011*	.17*		2.88	.008*	MOYENNE
STD.DEV.		.15	1.620*	.0200*	.004*	.25*		6.19	.006*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.24	L.0500	L.010	L.01		.11	.002	25 <sup>e</sup>
MEDIAN 50TH		.04	.530	L.0500	L.010	.03		.47	.009	50 <sup>e</sup> MEDIANE
75TH			2.2	.0700*	L.010	.47		.64	L.01	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P					01P	CODE DE SECOURS

		28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS)	0103	7(4)	8(3)	8(1)	3(1)		7(0)	6(6)	7(7)	ECHANTILLONS(IND.)
LOW	0056	L.001	L.001	.001	L.005		.19	L.05	L.01	MINIMUM
HIGH		.023	.019	.041	.014		.28	L.05	L.01	MAXIMUM
AVERAGE		.009*	.007*	.009*	.0107*		.24			MOYENNE
STD.DEV.		.009*	.007*	.013*	.0049*		.04			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.001	.001*	.003			.20	L.05	L.01	25 <sup>e</sup>
MEDIAN 50TH		L.01	.003	.003	.013		.27	L.05	L.01	50 <sup>e</sup> MEDIANE
75TH		.020	.012*	.007*			.27	L.05	L.01	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01P	06L	04L	03L					CODE DE SECOURS

		48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
	SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PHENOL MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS)	0056	7(5)	7(5)	3(3)	5(5)	8(6)			3(1)	ECHANTILLONS(IND.)
LOW	0103	L.001	L.1	L.05	L.10	L.001			L.05	MINIMUM
HIGH		L.01	.3	L.05	L.2	.013			.09	MAXIMUM
AVERAGE		.004*	.1*			.004*			.08*	MOYENNE
STD.DEV.		.004*	.1*			.005*			.02*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.001	L.1		L.10	L.001				25 <sup>e</sup>
MEDIAN 50TH		.002	L.1	L.05	L.2	L.001			.09	50 <sup>e</sup> MEDIANE
75TH		L.01	.2		L.2	.009*				75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01P			02P	01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07BD0004 LAT. 55 D 5M 33 S LONG. 114 D 5M 6 S

UTM 11 686000E 6108800 N  
JUN 15 1972 TO/A SEP 11 1972

ATHABASCA RIVER NEAR HONDO ALBERTA

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG. C. BACT DENS	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM ID	MF NO DL	MF NO DL	MF NO DL	NO ML	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0103					2(2)		2(2)	2(2)	ECHANTILLONS(IND.)
LOW					L.001		L.001	L.002	MINIMUM
HIGH					L.001		L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH					L.001		L.001	L.002	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0103	1(1)	2(2)	2(2)	2(2)	2(2)	2(2)	2(2)	2(2)	ECHANTILLONS(IND.)
LOW	L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	L.002	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		L.004	L.002	L.001	L.001	L.003	L.001	L.002	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCLOR 1254 (PCB'S)	18161L AROCLOR 1248 (PCB'S)	18162L AROCLOR 1260 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0103		2(2)	2(2)	2(2)	1(1)				ECHANTILLONS(IND.)
LOW		L.012	L.004	L.001	L.006				MINIMUM
HIGH		L.012	L.004	L.001	L.006				MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		L.012	L.004	L.001					50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79

ATHABASCA RIVER SUB-BASIN

STATION 00AL07BE0001 LAT. 54 D 43M 21 S LONG. 113 D 17M 9 S

UTM 12 352800E 6066100 N  
SEP 05, 1960 TO/A DEC 04, 1979

ATHABASCA RIVER AT ATHABASCA, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM									
SAMPLES(FLAGS)	0001	203(0)	191(0)	94(0)	200(2)	201(1)	202(0)	195(0)	191(0)	ECHANTILLONS(IND.)
LOW	0024	117.	57.	83.0	L5.	L1	7.2	39.	-.7	MINIMUM
HIGH	0003	501.	288.	214.	200.	1100.	8.6	192.0	1.1	MAXIMUM
AVERAGE	0479	306.	169.	149.8	29.*	33.2*		125.3		MOYENNE
STD.DEV.		83.	48.	38.4	26.*	97.6*		30.1		ECART-TYPE
PERCNT:10TH		210.	114.	105.	10.	1.3	7.6	89.7	-.2	10 <sup>e</sup> PERCNT
25TH		234.	127.	113.	15.	2.3	7.7	98.7	.0	25 <sup>e</sup>
MEDIAN 50TH		292.	160.	146.0	20.	7.0	8.0	120.	.2	50 <sup>e</sup> MEDIANE
75TH		383.	213.	186.	30.	34.0	8.1	154.	.4	75 <sup>e</sup>
90TH		421.	234.	202.	60.	74.	8.2	165.	.6	90 <sup>e</sup>
SECONDARY CODE								06L		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	16306L SULPHATE DISSOLVED S04 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	
SUBM ID										
SAMPLES(FLAGS)	0001	202(0)	203(0)	202(0)	133(0)	190(1)	190(1)	202(0)	170(0)	ECHANTILLONS(IND.)
LOW	0024	.5	2.2	16.6	3.5	0.	48.	8.	.2	MINIMUM
HIGH	0003	13.	20.	67.8	19.5	2.	234.	58.0	10.	MAXIMUM
AVERAGE	0479	1.5	7.8	41.55	11.0	0.*	152.*	29.4	3.2	MOYENNE
STD.DEV.		1.0	3.5	10.27	3.4	0.*	37.*	12.4	2.2	ECART-TYPE
PERCNT:10TH		.8	3.7	29.7	7.2	0.	110.	14.2	1.0	10 <sup>e</sup> PERCNT
25TH		1.0	4.6	32.7	8.4	0.	120.	19.0	1.3	25 <sup>e</sup>
MEDIAN 50TH		1.4	7.2	39.65	10.7	0.	146.	27.0	2.4	50 <sup>e</sup> MEDIANE
75TH		1.8	11.0	50.1	13.6	0.	187.	39.0	4.8	75 <sup>e</sup>
90TH		2.2	12.	55.3	16.0	0.	201.	47.3	6.0	90 <sup>e</sup>
SECONDARY CODE		02L 01L	02L 01L	02L 01L	01L			03L 04L	02L 06L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07506L NITROGEN TOTAL AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15314L PHOSPHORUS TOTAL INORG. PO4 P MG/L	
SUBM ID										
SAMPLES(FLAGS)	0001	21(0)	134(28)	26(26)	21(0)	21(1)	20(3)	40(25)	7(4)	ECHANTILLONS(IND.)
LOW	0024	.1	L.001	L.1	.13	L.01	L.003	L.002	L.002	MINIMUM
HIGH	0003	.8	.429	L.1	2.3	.44	.017	.40	.016	MAXIMUM
AVERAGE	0479	.5	.063*		.39	.150*	.007*	.014*	.007*	MOYENNE
STD.DEV.		.2	.071*		.46	.135*	.004*	.063*	.007*	ECART-TYPE
PERCNT:10TH		.3	L.005	L.1	.16	.03	L.003	L.002		10 <sup>e</sup> PERCNT
25TH		.4	.02	L.1	.19	.04	.005	L.002	L.002	25 <sup>e</sup>
MEDIAN 50TH		.5	.040	L.100	.28	.10	.007	L.003	L.002	50 <sup>e</sup> MEDIANE
75TH		.5	.08	L.1	.37	.19	.009	.005	.016	75 <sup>e</sup>
90TH		.6	.130	L.1	.53	.37	.015	.010		90 <sup>e</sup>
SECONDARY CODE		01L	08L 06L 10L					57L 55L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07BE0001 LAT. 54 D 43M 21 S LONG 113 D 17M 9 S

UTM 12 352800E 6066100N  
SEP 05 1960 TO/A DEC 04 1979

## ATHABASCA RIVER AT ATHABASCA ALBERTA

SUBM ID	P MG/L	P MG/L	SIO2 MG/L	O2 MG/L	C MG/L	C MG/L	C MG/L	C MG/L	C MG/L	
SAMPLES(FLAGS)	0001	25(8)	37(19)	197(0)	34(0)	32(0)	32(0)	26(0)	26(0)	ECHANTILLONS(IND.)
LOW	0024	L.001	L.005	1.6	7.2	4.	10.0	2.	12.	MINIMUM
HIGH	0003	.326	.100	10.0	13.6	28.	50.	25.	49.	MAXIMUM
AVERAGE	0479	.048*	.018*	5.02	10.2	11.8	26.0	7.4	28.2	MOYENNE
STD.DEV.		.095*	.024*	1.29	1.7	6.6	8.4	4.8	8.9	ECART-TYPE
PERCNT:10TH		L.001	L.005	3.3	8.4	6.	16.	3.	19.	10 <sup>th</sup> PERCNT
25TH		L.002	L.005	4.2	8.9	7.0	20.5	4.	21.	25 <sup>th</sup>
MEDIAN 50TH		.010	L.005	5.0	9.8	9.5	24.5	7.0	26.5	50 <sup>th</sup> MEDIANE
75TH		.026	.021	5.7	11.4	12.0	33.0	8.	35.	75 <sup>th</sup>
90TH		.218	.047	6.4	13.0	23.	36.	12.	38.	90 <sup>th</sup>
SECONDARY CODE		64L		01L 05L	01S			01L	51L	CODE DE SECOURS

		03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24052L CHROMIUM DISSOLVED	24302P CHROMIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
SUBM ID		LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	CR MG/L	MN MG/L	MN MG L	
SAMPLES(FLAGS)	0001	18(4)	31(4)	33(3)	24(18)	1(1)	34(32)	51(48)	47(15)	ECHANTILLONS(IND.)
LOW	0024	L.005	L.01	.008	L.001	L.004	L.010	L.010	L.01	MINIMUM
HIGH	0003	.022	.90	2.9	.09	L.004	.019	.42	.65	MAXIMUM
AVERAGE	0103	.007*	.09*	.613*	.0235*		.013*	.019*	.057*	MOYENNE
STD.DEV.	0479	.004*	.15*	.826*	.0275*		.003*	.057*	.103*	ECART-TYPE
PERCNT:10TH		L.005	L.02	.046	L.001		L.010	L.010	L.01	10 <sup>e</sup> PERCNT
25TH		.006	.04	.067	L.0010		L.010	L.010	L.01	25 <sup>e</sup>
MEDIAN 50TH		.007	.06	.27	.0035		L.015	L.010	.02	50 <sup>e</sup> MEDIANE
75TH		.007	.09	.69	L.0500		L.015	L.01	.07	75 <sup>e</sup>
90TH		.009	.11	2.2	L.05		L.015	L.01	.14	90 <sup>e</sup>
SECONDARY CODE			01L	05P	01P			04L	03L 04L	CODE DE SECOURS

		26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28101L NICKEL DISSOLVED	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	
SUBM ID		FE MG/L	FE MG/L	CO MG/L	NI MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0001	56(13)	42(0)	34(24)	2(2)	35(18)	49(18)	39(12)	27(16)	ECHANTILLONS(IND.)
LOW	0024	L.001	.08	L.001	L.00	L.001	L.001	L.001	L.0005	MINIMUM
HIGH	0003	.38	13.4	.013	L.00	.021	.02	.08	.014	MAXIMUM
AVERAGE	0103	.048*	1.346	.004*		.006*	.005*	.007*	.0025*	MOYENNE
STD.DEV.	0479	.066*	2.312	.004*		.005*	.005*	.013*	.0038*	ECART-TYPE
PERCNT:10TH		L.001	.17	L.002		L.002	L.001	L.001	L.0005	10 <sup>e</sup> PERCNT
25TH		.010	.22	L.002		L.002	.001	.001	L.0005	25 <sup>e</sup>
MEDIAN 50TH		.025	.490	.002*	L.00	.004	.003	.003	.0005	50 <sup>e</sup> MEDIANE
75TH		.075	1.5	.005		L.01	L.01	L.01	L.005	75 <sup>e</sup>
90TH		.11	3.10	L.01		.012	.01	.010	.0070	90 <sup>e</sup>
SECONDARY CODE		01L 04L	01L	01P		01P	01L 06L	04L 04P	03L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07BE0001 LAT. 54 D 43 M 21 S LONG. 113 D 17 M 9 S

UTM 12 352800E 6066100 N  
AUG 05, 1969 TO/A OCT 15, 1979

## ATHABASCA RIVER AT ATHABASCA, ALBERTA

		34102L SELENIUM DISSOLVED	38101L STRONTIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	51301P ANTIMONY EXTRBL.	
	SUBM ID	SE MG/L	SR MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	
SAMPLES(FLAGS)	0001	20(20)	2(0)	33(0)	27(27)	20(20)	2(2)	32(27)	9(8)	ECHANTILLONS(IND.)
LOW	0003	L.0005	.21	.08	L.05	L.00	L.00	L.001	L.008	MINIMUM
HIGH	0103	L.0005	.24	.51	L.10	L.01	L.00	L.01	L.50	MAXIMUM
AVERAGE	0479		.23	.24				.003*	.356*	MOYENNE
STD.DEV.			.02	.09				.004*	.157*	ECART-TYPE
PERCNT:10TH		L.0005		.16	L.05	L.00		L.001		10 <sup>e</sup> PERCNT
25TH		L.0005		.19	L.05	L.01		L.001	L.40	25 <sup>e</sup>
MEDIAN 50TH		L.0005	.23	.23	L.05	L.01	L.00	L.001	L.40	50 <sup>e</sup> MEDIANE
75TH		L.0005		.26	L.10	L.01		.002	L.40	75 <sup>e</sup>
90TH		L.0005		.34	L.10	L.01		L.01		90 <sup>e</sup>
SECONDARY CODE					01L			01P	02P	CODE DE SECOURS

		56301P BARIUM EXTRBL.	80011P MERCURY TOTAL	80111P MERCURY DISSOLVED	80313P MERCURY EXTRBL.	81101L THALLIUM DISSOLVED	81301P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	
	SUBM ID	BA MG/L	HG UG/L	HG UG/L	HG UG/L	TL MG/L	TL MG/L	PB MG/L	PB MG/L	
SAMPLES(FLAGS)	0001	32(17)	7(7)		30(30)	2(2)	11(11)	15(13)	37(31)	ECHANTILLONS(IND.)
LOW	0003	L.0	L.02		L.02	L.0	L.10	L.001	L.001	MINIMUM
HIGH	0103	.4	L.02		L.05	L.0	L.2	L.05	.014	MAXIMUM
AVERAGE	0479	.1*						.018*	.004*	MOYENNE
STD.DEV.		.1*						.024*	.004*	ECART-TYPE
PERCNT:10TH		.1			L.02		L.10	L.001	L.001	10 <sup>e</sup> PERCNT
25TH		.1	L.02		L.02		L.10	L.001	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.1	L.02		L.03	L.0	L.2	L.001	L.004	50 <sup>e</sup> MEDIANE
75TH		L.1	L.02		L.05		L.2	L.05	.005	75 <sup>e</sup>
90TH		.1			L.05		L.2	L.05	L.01	90 <sup>e</sup>
SECONDARY CODE					11P		02P	01L	01L	CODE DE SECOURS

		92101L URANIUM DISSOLVED	36001L COLIFORMS TOTAL	36011L COLIFORMS FECAL	36102L FECAL STREP.	06535P PHENOLIC MATERIAL	06711L CHLORO- PHYLL A	06902L CARBON ORGANIC PARTICUL	10711P NTA NITRILOTRI ACETIC AC.	
	SUBM ID	U MG/L	MPN NO/DL	MPN NO/DL	MF NO/DL	PHENOL MG/L	MG/L	C MG/L	H3NTA MG/L	
SAMPLES(FLAGS)	0001	1(0)	25(1)	24(9)	24(8)	41(12)	10(1)	21(0)	1(1)	ECHANTILLONS(IND.)
LOW	0003	.0012	L2.	L1.	L1.	.000	L.005	.17	L.01	MINIMUM
HIGH	0479	.0012	3600.	32.	426.	.025	.021	6.8	L.01	MAXIMUM
AVERAGE			424.*	9.*	44.*	.003*	.0109*	1.849		MOYENNE
STD.DEV.			826.*	10.*	95.*	.005*	.0058*	1.997		ECART-TYPE
PERCNT:10TH			2.	1.	L2.	L.001	.0060*	.17		10 <sup>e</sup> PERCNT
25TH			28.	L2.	L2.	.001	.007	.50		25 <sup>e</sup>
MEDIAN 50TH			120.	4.	4.	.001	.0080	.92		50 <sup>e</sup> MEDIANE
75TH			360.	17.	38.	.002	.015	2.41		75 <sup>e</sup>
90TH			1700.	28.	110.	.009	.0205	5.0		90 <sup>e</sup>
SECONDARY CODE			02L 02F	12L 12F	02F	32P 34P				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07BE0001 LAT 54 D 43M 21 S LONG 113 D 17M 9 S

UTM 12 352800E 6066100N

SEP 03 1971 TO A OCT 15 1979

## ATHABASCA RIVER AT ATHABASCA ALBERTA

		18130L P.P- METHOXY- CHLOR	18125L MIREX	18240P PARATHION	18245P PARATHION- METHYL	18100P PHORATE	18611P PICLORAM	18260P FENCHLORPHOS (RONNEL)	18415P FENOPROP (SILVEX)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0479	16(16)	6(6)	8(8)	3(3)	2(2)	4(4)	2(2)	6(6)	ECHANTILLONS(IND.)
LOW	0103	L.01	L.001	L.01	L.01	L.02	L.2	L.02	L.004	MINIMUM
HIGH	0003	L.012	L.001	L.02	L.02	L.02	L.2	L.02	L.004	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCENT:10TH		L.01								10 <sup>e</sup> PERCNT
25TH		L.010	L.001	L.01			L.20		L.004	25 <sup>e</sup>
MEDIAN 50TH		L.010	L.001	L.01	L.02	L.02	L.20	L.02	L.004	50 <sup>e</sup> MEDIANE
75TH		L.012	L.001	L.02			L.20		L.004	75 <sup>e</sup>
90TH		L.012								90 <sup>e</sup>
SECONDARY CODE				40L	45L					CODE DE SECOURS

		18320P CARBO- PHENOTHION	18325L METHYLCARBO PHENOTHION	18500P 2,4-D	18510P 2,4,5-T	18550P 2,4-DB	18555P DICHLORPROP	18160L AROCLOR 1254 (PCB'S)	18161L AROCLOR 1248 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	7(7)	1(1)	16(14)	15(14)	15(15)	15(14)	14(14)	14(14)	ECHANTILLONS(IND.)
LOW	0003	L.02	L.02	L.004	L.001	L.006	L.002	L.002	L.002	MINIMUM
HIGH	0479	L.02	L.02	.017	.007	L.009	.025	L.032	L.024	MAXIMUM
AVERAGE				.005*	.002*		.005*			MOYENNE
STD.DEV.				.003*	.001*		.005*			ECART-TYPE
PERCENT:10TH				L.004	L.001	L.009	L.004	L.002	L.002	10 <sup>e</sup> PERCNT
25TH		L.02		L.004	L.002	L.009	L.004	L.002	L.002	25 <sup>e</sup>
MEDIAN 50TH		L.02		L.004	L.002	L.009	L.004	L.002	L.002	50 <sup>e</sup> MEDIANE
75TH		L.02		L.004	L.002	L.009	L.004	L.03	L.02	75 <sup>e</sup>
90TH				.009	L.002	L.009	L.004	L.032	L.024	90 <sup>e</sup>
SECONDARY CODE				00L	10L	50L	55L			CODE DE SECOURS

		18162L AROCLOR 1260 (PCB'S)	17811L HEXACHLORO- BENZENE	10151L ALKALINITY PHENOL PHTHALEIN CAC03 MG/L	09105L FLUORIDE DISSOLVED F MG/L	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
	SUBM ID	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	13(13)	6(6)	192(1)	101(5)	55(8)	34(0)	43(5)	ECHANTILLONS(IND.)
LOW	0024	L.005	L.001	.0	L.05	L.1	120.	L.1	MINIMUM
HIGH	0479	L.06	L.001	1.5	1.80	1618.	283.	1508.	MAXIMUM
AVERAGE	0003			.0*	.15*	103.*	199.	123.*	MOYENNE
STD.DEV.	0103			.2*	.20*	253.*	50.	262.*	ECART-TYPE
PERCENT:10TH		L.005		0.	.07	L.1	143.	L.1	10 <sup>e</sup> PERCNT
25TH		L.005	L.001	.0	.08	4.	148.	8.	25 <sup>e</sup>
MEDIAN 50TH		L.005	L.001	.0	.10	21.	193.	34.	50 <sup>e</sup> MEDIANE
75TH		L.055	L.001	.0	.15	80.	240.	102.	75 <sup>e</sup>
90TH		L.055		.0	.20	211.	276.	303.	90 <sup>e</sup>
SECONDARY CODE				04L 02L 03L				02L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07BE0001 LAT. 54 D 43M 21 S LONG. 113 D 17M 9 S

UTM 12 352800E 6066100 N  
SEP 03, 1971 TO/A OCT 15, 1979

## ATHABASCA RIVER AT ATHABASCA, ALBERTA

	18130L ALDRIN	18195P AZIN- PHOSETHYL	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18060L ALPHA- (CIS) CHLORDANE	18065L GAMMA- (TRANS) CHLORDANE	18230P CRUFOMATE	18150L HEOD (DIELDRIN)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103 16(16)	2(2)	8(1)	16(16)	9(9)	9(9)	2(2)	16(16)	ECHANTILLONS(IND.)
LOW	0003 L.001	L.2	L.001	L.001	L.003	L.002	L.2	L.002	MINIMUM
HIGH	0479 L.001	L.2	.010	L.001	L.003	L.002	L.2	L.002	MAXIMUM
AVERAGE			.004*						MOYENNE
STD.DEV.			.004*						ECART-TYPE
PERCNT:10TH	L.001			L.001				L.002	10 <sup>e</sup> PERCNT
25TH	L.001		.002	L.001	L.003	L.002		L.002	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.20	.003	L.001	L.003	L.002	L.20	L.002	50 <sup>e</sup> MEDIANE
75TH	L.001		.008	L.001	L.003	L.002		L.002	75 <sup>e</sup>
90TH	L.001			L.001				L.002	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18000L P,P-DDT	18005L O,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18270P DIAZINON	18215P DISULFOTON	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0479 16(16)	6(6)	16(16)	16(16)	8(8)	2(2)	16(16)	16(16)	ECHANTILLONS(IND.)
LOW	0003 L.004	L.001	L.002	L.001	L.02	L.02	L.001	L.003	MINIMUM
HIGH	0103 L.004	L.001	L.002	L.001	L.02	L.02	L.001	L.003	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH	L.004		L.002	L.001			L.001	L.003	10 <sup>e</sup> PERCNT
25TH	L.004	L.001	L.002	L.001	L.02		L.001	L.003	25 <sup>e</sup>
MEDIAN 50TH	L.004	L.001	L.002	L.001	L.02	L.020	L.001	L.003	50 <sup>e</sup> MEDIANE
75TH	L.004	L.001	L.002	L.001	L.02		L.001	L.003	75 <sup>e</sup>
90TH	L.004		L.002	L.001			L.001	L.003	90 <sup>e</sup>
SECONDARY CODE					70L				CODE DE SECOURS

	18140L ENDRIN	18310P ETHION	18190P AZIN- PHOSMETHYL (GUTHION)	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	18205P IMIDAN	18250P MALATHION	18520P MCPA	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103 9(9)	8(8)	8(8)	16(16)	16(16)	2(2)	7(7)	14(14)	ECHANTILLONS(IND.)
LOW	0479 L.002	L.01	L.1	L.001	L.002	L.2	L.01	L.2	MINIMUM
HIGH	0003 L.002	L.02	L.5	L.001	L.002	L.2	L.05	L.2	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH				L.001	L.002			L.2	10 <sup>e</sup> PERCNT
25TH	L.002	L.01	L.10	L.001	L.002		L.01	L.2	25 <sup>e</sup>
MEDIAN 50TH	L.002	L.01	L.10	L.001	L.002	L.20	L.01	L.200	50 <sup>e</sup> MEDIANE
75TH	L.002	L.02	L.50	L.001	L.002		L.05	L.2	75 <sup>e</sup>
90TH				L.001	L.002			L.2	90 <sup>e</sup>
SECONDARY CODE		10L	90L					20L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07BJ0001 LAT. 55 D 19M 45 S LONG 115 D 24M 51 S

UTM 11 600600E 6132300 N  
SEP 12 1967 TO/A JUN 04 1974

SWAN RIVER AT KINUSO ALBERTA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH-UNITS	CACO3 MG/L	PH-UNITS	
SAMPLES(FLAGS)	0001	55(0)	54(0)	55(0)	53(0)	55(0)	55(0)	54(0)	ECHANTILLONS(IND.)
LOW	0033	69.	35.	25.3	5.	2.3	6.9	22.9	MINIMUM
HIGH	0003	351.	185.	141.	200.	330.	8.5	161.	MAXIMUM
AVERAGE		185.	97.	75.4	94.	37.7	81.1		MOYENNE
STD.DEV.		83.	41.	34.0	42.	57.3	40.5		ECART-TYPE
PERCNT:10TH		82.	47.	33.0	40.	6.5	7.2	32.1	10 <sup>e</sup> PERCNT
25TH		116.	63.	48.1	80.	10.0	7.5	48.2	25 <sup>e</sup>
MEDIAN 50TH		169.	87.	66.0	90.	16.0	7.7	71.5	50 <sup>e</sup> MEDIANE
75TH		260.	130.	110.	120.	39.0	7.9	116.	75 <sup>e</sup>
90TH		309.	160.	128.	140.	110.	8.1	142.	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0001	55(0)	55(0)	55(0)	11(0)	55(0)	55(0)	55(0)	ECHANTILLONS(IND.)
LOW	0033	1.1	4.2	7.4	2.5	0.	28.	9.	MINIMUM
HIGH	0003	4.1	23.0	45.4	7.4	7.	196.	6.1	MAXIMUM
AVERAGE		1.8	10.1	22.7	4.7	0.	99.	2.2	MOYENNE
STD.DEV.		.5	4.1	10.2	1.8	1.	49.	1.0	ECART-TYPE
PERCNT:10TH		1.3	5.0	9.9	2.8	0.	39.	1.1	10 <sup>e</sup> PERCNT
25TH		1.5	7.5	15.0	2.8	0.	59.	1.6	25 <sup>e</sup>
MEDIAN 50TH		1.8	9.8	20.0	4.4	0.	87.	2.0	50 <sup>e</sup> MEDIANE
75TH		2.0	12.6	31.1	6.5	0.	141.	2.7	75 <sup>e</sup>
90TH		2.3	15.0	38.5	6.7	0.	169.	3.8	90 <sup>e</sup>

SECONDARY CODE

01L

06L

04L 01L

CODE DE SECOURS

	07002L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15314L PHOSPHORUS TOTAL INORG. PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	
SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	
SAMPLES(FLAGS)	0001	4(0)	45(11)	10(5)	14(2)	4(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	0003	.6	L.001	L.1	L.002	.010	.003	.007	7.3
HIGH	0033	.9	2.80	.5	.111	.033	.052	.049	19.0
AVERAGE		.7	.134*	.2*	.021*	.018	.020	.033	13.9
STD.DEV.		.1	.422*	.2*	.029*	.010	.016	.016	3.1
PERCNT:10TH			L.005	L.1	L.002				9.6
25TH		.7	.020	L.1	.007	.012	.009	.021	11.5
MEDIAN 50TH		.7	.040	.1*	.010	.015	.019	.036	14.2
75TH		.8	.080	.4	.030	.025	.027	.047	16.8
90TH			.170	.5	.042				17.8

SECONDARY CODE

01L

06L

55L 59L

13L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07BJ0001** LAT. **55 D 19 M 45 S** LONG. **115 D 24 M 51 S**

UTM **11 600600E 6132300 N**  
SEP 12, 1967 TO/À JUN 04, 1974

SWAN RIVER AT KINUSO, ALBERTA

		06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO O2 MG/L	08401L OXYGEN CONSUMED O2 MG/L	06532P PHENOLIC MATERIAL MG/L	06711L CHLORO- PHYLL A MG/L	10711L NTA NITRILOTRI ACETIC AC. H3NTA MG/L	09105L FLUORIDE DISSOLVED F MG/L	05105L BORON DISSOLVED B MG/L	
SAMPLES(FLAGS)	0001	10(0)	1(0)	6(0)	2(1)	4(1)		23(4)	6(0)	ECHANTILLONS(IND.)
LOW	0003	8.0	7.8	2.5	L.002	L.001		L.05	.06	MINIMUM
HIGH	0033	38.0	7.8	22.2	.005	.026		.22	.24	MAXIMUM
AVERAGE	0103	17.3		10.3	.003*	.0145*		.10*	.13	MOYENNE
STD.DEV.		9.4		7.6	.002*	.0105*		.05*	.06	ECART-TYPE
PERCNT:10TH		8.5						L.05		10 <sup>e</sup> PERCNT
25TH		10.0		6.1		.0070*		.06	.08	25 <sup>e</sup>
MEDIAN 50TH		14.0		6.9	.003*	.0155		.09	.12	50 <sup>e</sup> MEDIANE
75TH		22.0		17.0		.0220		.14	.14	75 <sup>e</sup>
90TH		32.0						.15		90 <sup>e</sup>
SECONDARY CODE								04L		CODE DE SECOURS

		03101L LITHIUM DISSOLVED LI MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24052L CHROMIUM DISSOLVED CR MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	
SAMPLES(FLAGS)	0103		7(0)	10(2)	6(5)		11(11)	13(6)	15(2)	ECHANTILLONS(IND.)
LOW	0001		.008	L.10	L.05		L.010	L.010	L.01	MINIMUM
HIGH	0003		.028	4.9	.07		L.010	.58	1.50	MAXIMUM
AVERAGE	0033		.019	.883*	.0533*			.117*	.35*	MOYENNE
STD.DEV.			.006	1.469*	.0082*			.186*	.47*	ECART-TYPE
PERCNT:10TH				L.100			L.010	L.010	L.01	10 <sup>e</sup> PERCNT
25TH			.015	.14	L.05		L.010	L.01	.06	25 <sup>e</sup>
MEDIAN 50TH			.021	.340	L.0500		L.010	.01	.21	50 <sup>e</sup> MEDIANE
75TH			.024	.86	L.05		L.010	.15	.35	75 <sup>e</sup>
90TH				3.150			L.010	.37	1.40	90 <sup>e</sup>
SECONDARY CODE					01P			04L	04L	CODE DE SECOURS

		26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	28101L NICKEL DISSOLVED NI MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0001	17(0)	11(0)	11(5)		11(3)	10(4)	15(6)	6(2)	ECHANTILLONS(IND.)
LOW	0033	.090	1.20	L.001		.004	L.001	L.001	.0005	MINIMUM
HIGH	0003	1.23	8.80	.045		.013	L.01	.011	.018	MAXIMUM
AVERAGE	0103	.497	3.545	.009*		.008*	.006*	.006*	.0084*	MOYENNE
STD.DEV.		.406	2.390	.012*		.003*	.004*	.004*	.0073*	ECART-TYPE
PERCNT:10TH		.100	1.30	L.001		.004	.001*	.001		10 <sup>e</sup> PERCNT
25TH		.170	1.80	.002		.005	.003	.003	L.005	25 <sup>e</sup>
MEDIAN 50TH		.300	3.00	.005		.008	.006	.005	.0050*	50 <sup>e</sup> MEDIANE
75TH		.700	3.80	L.01		L.01	L.01	L.01	.017	75 <sup>e</sup>
90TH		1.22	7.30	.010		.010	L.010	L.01		90 <sup>e</sup>
SECONDARY CODE		04L	02L	01P		01P	06L	06L	04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07BJ0001 LAT 55 D 19 M 45 S LONG. 115 D 24 M 51 S

UTM 11 600600E 6132300N  
SEP 12 1967 TO A JUN 04 1974

## SWAN RIVER AT KINUSO ALBERTA

	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	34102L SELENIUM DISSOLVED	38101L STRONTIUM DISSOLVED	38101P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	48101L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	
SUBM ID	ZN MG/L	ZN MG/L	SE MG/L	SR MG/L	SR MG/L	MO MG/L	CD MG/L	CD MG/L	
SAMPLES(FLAGS)	0103	10(4)	15(6)		11(0)	10(10)		8(4)	ECHANTILLONS(IND.)
LOW	0001	.003	L.001		.05	L.05		L.001	MINIMUM
HIGH	0003	.017	.018		.18	L.05		.002	MAXIMUM
AVERAGE	0033	.009*	.007*		.11			.001*	MOYENNE
STD.DEV.		.004*	.005*		.04			.000*	ECART-TYPE
PERCNT:10TH		.003	.001		.05	L.0500			10 <sup>e</sup> PERCNT
25TH		.004	.003		.07	L.05		L.001	25 <sup>e</sup>
MEDIAN 50TH		L.010	.007		.12	L.0500		.001*	50 <sup>e</sup> MEDIANE
75TH		L.01	L.01		.15	L.05		.001	75 <sup>e</sup>
90TH		.015	L.01		.16	L.0500			90 <sup>e</sup>
SECONDARY CODE	04L	04L							CODE DE SECOURS

	47301P SILVER EXTRBL.	51301P ANTIMONY EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81101L THALLIUM DISSOLVED	81301P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	
SUBM ID	AG MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	TL MG/L	PB MG/L	PB MG/L	
SAMPLES(FLAGS)	0001	11(11)	4(4)	11(7)	6(6)	4(4)	8(6)	16(14)	ECHANTILLONS(IND.)
LOW	0033	L.01	L.2	L.1	L.05	L.2	L.001	L.001	MINIMUM
HIGH	0003	L.01	L.5	.2	L.05	L.2	L.05	L.01	MAXIMUM
AVERAGE	0103			.1*			.021*	.004*	MOYENNE
STD.DEV.				.0*			.024*	.004*	ECART-TYPE
PERCNT:10TH		L.01		L.1				L.001	10 <sup>e</sup> PERCNT
25TH		L.01	L.3	L.1	L.05	L.2	L.001	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.01	L.4	L.1	L.05	L.2	.006	L.001	50 <sup>e</sup> MEDIANE
75TH		L.01	L.4	.1	L.05	L.2	L.050	L.010	75 <sup>e</sup>
90TH		L.01		.2				L.01	90 <sup>e</sup>
SECONDARY CODE							01L	01L	CODE DE SECOURS

	92101L URANIUM DISSOLVED	18160L AROCLO 1254 (PCB'S)	18161L AROCLO 1248 (PCB'S)	18162L AROCLO 1260 (PCB'S)	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	U MG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	3(3)	3(3)	3(3)	20(1)	1(0)	20(6)	1(0)	ECHANTILLONS(IND.)
LOW	0003	L.03	L.02	L.055	L.1	106.	L.1	56.	MINIMUM
HIGH		L.032	L.024	L.06	834.	106.	773.	56.	MAXIMUM
AVERAGE					96.*		85.*		MOYENNE
STD.DEV.					213.*		196.*		ECART-TYPE
PERCNT:10TH					2.		L.1		10 <sup>e</sup> PERCNT
25TH					5.		L.1		25 <sup>e</sup>
MEDIAN 50TH		L.032	L.024	L.055	12.		9.		50 <sup>e</sup> MEDIANE
75TH					40.		32.		75 <sup>e</sup>
90TH					415.		371.		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07BK0005 LAT. 55 D 18 M 21 S LONG. 114 D 45 M 30 S

UTM 11 642300E 6130900 N  
AUG 23, 1973 TO/A JUN 04, 1974LESSER SLAVE RIVER AT SLAVE LAKE,  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
SAMPLES(FLAGS)	0103	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)		ECHANTILLONS(IND.)
LOW	0003	169.	93.	69.0	25.	.9	7.6	73.0		MINIMUM
HIGH		205.	104.	84.0	50.	22.0	8.2	79.0		MAXIMUM
AVERAGE		186.	100.	77.0	34.	7.1		76.3		MOYENNE
STD.DEV.		15.	5.	6.2	11.	10.0		2.5		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		175.	96.	73.0	28.	1.4	7.7	74.5		25 <sup>e</sup>
MEDIAN 50TH		184.	101.	77.5	30.	2.7	7.8	76.5		50 <sup>e</sup> MEDIANE
75TH		196.	104.	81.0	40.	12.8	8.0	78.0		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0003	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW	0103	2.7	6.8	21.0	2.3	0.	89.	.8	12.0	MINIMUM
HIGH		3.1	8.5	27.0	5.6	0.	96.	1.3	16.0	MAXIMUM
AVERAGE		2.9	7.4	23.75	4.3	0.	93.	1.0	14.8	MOYENNE
STD.DEV.		.2	.8	2.75	1.5	0.	3.	.2	1.9	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		2.7	6.8	21.50	3.2	0.	91.	.9	13.5	25 <sup>e</sup>
MEDIAN 50TH		2.8	7.2	23.50	4.6	0.	93.	1.0	15.5	50 <sup>e</sup> MEDIANE
75TH		3.0	8.0	26.00	5.4	0.	95.	1.2	16.0	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE								06L	04L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	08101P OXYGEN DISSOLVED DO O2 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0103	4(0)	4(2)			4(0)	4(0)	4(0)	1(0)	ECHANTILLONS(IND.)
LOW	0003	.7	L.001			.014	.5	10.0	8.4	MINIMUM
HIGH		1.0	.090			.039	3.0	17.0	8.4	MAXIMUM
AVERAGE		.8	.043*			.022	1.47	13.8		MOYENNE
STD.DEV.		.1	.049*			.012	1.14	3.0		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.8	L.001			.015	.60	11.5		25 <sup>e</sup>
MEDIAN 50TH		.8	.040*			.018	1.20	14.0		50 <sup>e</sup> MEDIANE
75TH		.9	.085			.030	2.35	16.0		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L								CODE DE SECOURS

\* These statistics include flagged values /Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79

ATHABASCA RIVER SUB BASIN

STATION 00AL07BK0005 LAT. 55 D 18 M 21 S LONG 114 D 45 M 30 S

UTM 11 642300E 6130900N

JUN 22 1971 TO/A JUN 04 1974

LESSER SLAVE RIVER AT SLAVE LAKE  
ALBERTA

		13102P BORON DISSOLVED EXTRBL	23302P ALUMINUM EXTRBL	23302P VANADIUM EXTRBL	24302P CHROMIUM EXTRBL	25304P MANGANESE EXTRBL	26102L IRON DISSOLVED FE	26304P IRON EXTRBL FE	27302P COBALT EXTRBL CO	
SUBM ID		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	6(0)	11(6)	6(6)	11(11)	11(1)		10(4)	11(6)	ECHANTILLONS(IND.)
LOW	0003	.03	L.10	L.05	L.010	L.01		L.05	L.001	MINIMUM
HIGH		.08	.33	L.05	L.010	.11		1.50	L.01	MAXIMUM
AVERAGE		.06	.167*			.05*		.31*	.004*	MOYENNE
STD.DEV.		.02	.091*			.03*		.46*	.003*	ECART-TYPE
PERCNT:10TH			L 10		L 010	.02		L 05	L 001	10 <sup>e</sup> PERCNT
25TH		.05	L 10	L 05	L 010	.02		L 05	L 001	25 <sup>e</sup>
MEDIAN 50TH		.06	L.10	L.0500	L.010	.05		.10	.003	50 <sup>e</sup> MEDIANE
75TH		.07	.27	L 05	L 010	.07		.32	.006	75 <sup>e</sup>
90TH			.30		L 010	.08		1.08	L 01	90 <sup>e</sup>
SECONDARY CODE									01P	CODE DE SECOURS

		29305P NICKEL EXTRBL	30305P COPPER EXTRBL	30305P ZINC EXTRBL	33104L ARSENIC DISSOLVED AS	34102L SELENIUM DISSOLVED SE	38301P STRONTIUM EXTRBL SR	42301P MOLYBDENUM EXTRBL MO	47301P SILVER EXTRBL AG	
SUBM ID		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0003	11(5)	11(4)	11(2)	5(2)		11(0)	10(10)	11(11)	ECHANTILLONS(IND.)
LOW	0103	L.001	L.001	L.001	L.0005		.08	L.05	L.01	MINIMUM
HIGH		L.01	.003	.024	.014		.30	L.05	L.01	MAXIMUM
AVERAGE		.005*	.001*	.004*	.0083*		.12			MOYENNE
STD.DEV.		.004*	.001*	.007*	.0056*		.06			ECART-TYPE
PERCNT:10TH		L 001	L 001	L 001			.09	L 05	L 01	10 <sup>e</sup> PERCNT
25TH		.002	L 001	.001	L 005		.09	L 05	L 01	25 <sup>e</sup>
MEDIAN 50TH		.006	.001	.002	.009		.10	L.05	L.01	50 <sup>e</sup> MEDIANE
75TH		L 01	.001	.003	.013		.12	L 05	L 01	75 <sup>e</sup>
90TH		L 01	.002	.011			.17	L 05	L 01	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		56301P CADIUM EXTRBL	56301P BARIUM EXTRBL	60311P MERCURY EXTRBL	81301P THALLIUM EXTRBL	82302P LEAD EXTRBL	06535P PHENOLIC MATERIAL PHENOL	06604P CYANIDE DISSOLVED CN	09105L FLUORIDE DISSOLVED F	
SUBM ID		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	11(9)	11(10)	6(6)	7(7)	11(9)	1(0)		4(1)	ECHANTILLONS(IND.)
LOW	0003	L.001	L.1	L.05	L.10	L.001	.004		L.05	MINIMUM
HIGH		L.01	.1	L.05	L.2	.005	.004		.08	MAXIMUM
AVERAGE		.003*	.1*			.001*			.06*	MOYENNE
STD.DEV.		.004*	.0*			.001*			.01*	ECART-TYPE
PERCNT:10TH		L 001	L 1			L 001				10 <sup>e</sup> PERCNT
25TH		L.001	L 1	L 05	L 10	L 001			.05*	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.1	L.05	L.2	L.001			.06	50 <sup>e</sup> MEDIANE
75TH		.002	L 1	L 05	L 2	L 001			.07	75 <sup>e</sup>
90TH		L 01	L 1			.002				90 <sup>e</sup>
SECONDARY CODE					02P		02P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION 00AL07BK0005 LAT. 55 D 18 M 21 S LONG. 114 D 45 M 30 S

UTM 11 642300E 6130900 N  
FEB 08, 1973 TO/A FEB 08, 1973

LESSER SLAVE RIVER AT SLAVE LAKE,  
ALBERTA

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT.DENS.	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	
SUBM	MF	MF	MF	NO/ML	UG/L	UG/L	UG/L	UG/L	
ID	NO/DL	NO/DL	NO/DL						
SAMPLES(FLAGS) 0103					1(1)		1(1)	1(1)	ECHANTILLONS(IND.)
LOW					L.001		L.001	L.002	MINIMUM
HIGH					L.001		L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	
SUBM	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ID									
SAMPLES(FLAGS) 0103	1(0)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	ECHANTILLONS(IND.)
LOW	.018	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MINIMUM
HIGH	.018	L.004	L.002	L.001	L.001	L.003	L.001	L.002	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	
SUBM	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ID									
SAMPLES(FLAGS) 0003	1(1)	1(1)	1(0)	1(0)	1(1)	2(2)	2(2)	1(1)	ECHANTILLONS(IND.)
LOW 0103	L.2	L.012	.009	.009	L.009	L.03	L.02	L.06	MINIMUM
HIGH	L.2	L.012	.009	.009	L.009	L.032	L.024	L.06	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH						L.031	L.022		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07CD0001 LAT 56 D 40 M 51 S LONG 111 D 15 M 0 S

UTM 12 484700E 6281600N  
OCT 03 1967 TO A JAN 18 1978CLEARWATER RIVER ABOVE FORT MCMURRAY  
ALBERTA

		12041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CALCD. MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH	10101L ALKALINITY TOTAL CALCD. MG/L	00206L SATURATION INDEX (CALCD.) PERCENT	
	SUBM ID	USIE CM					PH UNITS			
SAMPLES(FLAGS)	0001	78(0)	77(0)	68(0)	76(1)	78(0)	78(0)	78(0)	77(0)	ECHANTILLONS(IND.)
LOW	0056	133.	70.	49.0	15.	.6	7.1	34.3	-1.4	MINIMUM
HIGH	0003	420.	214.	108.	100.	450.	8.2	95.1	.2	MAXIMUM
AVERAGE		268.	137.	69.1	46.*	22.3		64.7		MOYENNE
STD.DEV.		75.	36.	9.4	25.*	54.5		9.7		ECART-TYPE
PERCNT:10TH		174.	91.	56.4	20.	3.2	7.3	52.2	-1.1	10 <sup>e</sup> PERCNT
25TH		207.	108.	63.1	29.	4.4	7.5	58.3	-.9	25 <sup>e</sup>
MEDIAN 50TH		258.	139.	70.0	40.	8.5	7.7	65.8	-.7	50 <sup>e</sup> MEDIANE
75TH		331.	165.	74.8	70.	19.0	7.9	70.6	-.4	75 <sup>e</sup>
90TH		380.	192.	78.4	80.	42.0	8.0	76.2	-.3	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0003	78(0)	78(0)	68(0)	24(0)	77(0)	77(0)	78(0)	78(0)	ECHANTILLONS(IND.)
LOW	0056	.5	8.6	13.5	4.1	0.	42.	6.6	3.7	MINIMUM
HIGH	0001	4.1	54.3	33.4	9.4	0.	116.	81.0	25.2	MAXIMUM
AVERAGE		1.0	28.0	19.5	5.5	0.	79.	35.6	9.8	MOYENNE
STD.DEV.		.5	12.2	3.2	1.2	0.	12.	17.7	3.7	ECART-TYPE
PERCNT:10TH		.8	13.0	15.6	4.4	0.	64.	14.0	5.5	10 <sup>e</sup> PERCNT
25TH		.8	16.1	17.3	4.7	0.	71.	20.0	7.3	25 <sup>e</sup>
MEDIAN 50TH		1.0	26.1	19.1	5.4	0.	80.	34.2	9.5	50 <sup>e</sup> MEDIANE
75TH		1.2	36.8	21.1	6.1	0.	85.	49.0	11.3	75 <sup>e</sup>
90TH		1.3	46.0	23.3	7.0	0.	91.	62.5	13.3	90 <sup>e</sup>
SECONDARY CODE					01L			06L	04L 06L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15314L PHOSPHORUS TOTAL INORG. PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0001	15(1)	63(13)	9(6)	12(0)	4(1)	9(0)	21(0)	76(0)	ECHANTILLONS(IND.)
LOW	0003	L.1	L.005	L.1	.003	L.002	.012	.010	2.7	MINIMUM
HIGH	0056	.9	.452	.2	.065	.068	.036	.26	13.2	MAXIMUM
AVERAGE		.5*	.104*	.1*	.016	.025*	.021	.050	8.8	MOYENNE
STD.DEV.		.2*	.110*	.0*	.016	.029*	.007	.052	2.7	ECART-TYPE
PERCNT:10TH		.2	L.005		.007			.015	5.7	10 <sup>e</sup> PERCNT
25TH		.3	.010	L.1	.009	.007*	.017	.027	7.0	25 <sup>e</sup>
MEDIAN 50TH		.6	.068	L.1	.013	.015	.020	.038	8.1	50 <sup>e</sup> MEDIANE
75TH		.7	.17	.1	.016	.042	.022	.057	11.5	75 <sup>e</sup>
90TH		.8	.240		.018			.072	12.7	90 <sup>e</sup>
SECONDARY CODE		01L	06L		59L 55L			13L		CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AL07CD0001** LAT. **56 D 40 M 51 S** LONG. **111 D 15 M 0 S**

UTM **12 484700E 6281600 N**  
OCT 03, 1967 TO/A JAN 18, 1978

CLEARWATER RIVER ABOVE FORT MCMURRAY,  
ALBERTA

		06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	08401L OXYGEN CONSUMED	06532P PHENOLIC MATERIAL	06711L CHLORO- PHYLL A	10711L NTA NITRILOTRI ACETIC AC. H3NTA	09105L FLUORIDE DISSOLVED	05105L BORON DISSOLVED	
	SUBM ID	C MG/L	O2 MG/L	O2 MG/L	MG/L	MG/L	MG/L	F MG/L	B MG/L	
<b>SAMPLES(FLAGS)</b>	0003	22(0)	11(0)	5(0)	17(3)	10(2)		35(1)	17(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	<b>4.0</b>	<b>8.7</b>	<b>4.1</b>	<b>.001</b>	<b>.003</b>		<b>.05</b>	<b>.08</b>	<b>MINIMUM</b>
<b>HIGH</b>	0056	<b>28.</b>	<b>13.8</b>	<b>7.4</b>	<b>.017</b>	<b>.022</b>		<b>.30</b>	<b>.21</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>13.4</b>	<b>10.8</b>	<b>5.3</b>	<b>.006*</b>	<b>.0092*</b>		<b>.12*</b>	<b>.12</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>5.9</b>	<b>1.9</b>	<b>1.3</b>	<b>.005*</b>	<b>.0061*</b>		<b>.06*</b>	<b>.03</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>6.0</b>	<b>9.0</b>		<b>.001</b>	<b>.0040*</b>		<b>.06</b>	<b>.08</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>8.</b>	<b>9.3</b>	<b>4.5</b>	<b>L.002</b>	<b>L.005</b>		<b>.07</b>	<b>.10</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>13.0</b>	<b>9.6</b>	<b>5.1</b>	<b>.003</b>	<b>.0080</b>		<b>.10</b>	<b>.12</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>17.0</b>	<b>12.7</b>	<b>5.6</b>	<b>.010</b>	<b>.009</b>		<b>.14</b>	<b>.14</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>20.</b>	<b>13.2</b>		<b>.014</b>	<b>.0200</b>		<b>.25</b>	<b>.17</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					35P			04L		CODE DE SECOURS

		03101L LITHIUM DISSOLVED	03301P LITHIUM EXTRBLE.	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24052L CHROMIUM DISSOLVED	24302P CHROMIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
	SUBM ID	LI MG/L	LI MG/L	AL MG/L	V MG/L	CR MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b>	0003	1(0)		17(1)	9(5)	1(1)	17(17)	14(10)	18(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	<b>.008</b>		<b>.027</b>	<b>L.001</b>	<b>L.004</b>	<b>L.010</b>	<b>L.010</b>	<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>	0056	<b>.008</b>		<b>8.0</b>	<b>.030</b>	<b>L.004</b>	<b>L.015</b>	<b>.03</b>	<b>.69</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.630*</b>	<b>.0043*</b>			<b>.011*</b>	<b>.09*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>1.907*</b>	<b>.0096*</b>			<b>.005*</b>	<b>.15*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				<b>.030</b>			<b>L.010</b>	<b>L.010</b>	<b>.03</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				<b>.050</b>	<b>L.001</b>		<b>L.010</b>	<b>L.01</b>	<b>.04</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				<b>.14</b>	<b>L.001</b>		<b>L.015</b>	<b>L.010</b>	<b>.06</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				<b>.20</b>	<b>.001</b>		<b>L.015</b>	<b>.01</b>	<b>.07</b>	<b>75<sup>e</sup></b>
<b>90TH</b>				<b>.70</b>			<b>L.015</b>	<b>.010</b>	<b>.19</b>	<b>90<sup>e</sup></b>
SECONDARY CODE				05P				04L	04L	CODE DE SECOURS

		26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28101L NICKEL DISSOLVED	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	33103L ARSENIC DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	CO MG/L	NI MG/L	NI MG/L	CU MG/L	CU MG/L	AS MG/L	
<b>SAMPLES(FLAGS)</b>	0003	15(1)	17(0)	16(10)	1(1)	17(7)	10(8)	20(11)	14(12)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	<b>L.001</b>	<b>.63</b>	<b>L.001</b>	<b>L.00</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>MINIMUM</b>
<b>HIGH</b>	0001	<b>.310</b>	<b>24.</b>	<b>.019</b>	<b>L.00</b>	<b>.042</b>	<b>L.01</b>	<b>.032</b>	<b>.0021</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.125*</b>	<b>2.616</b>	<b>.004*</b>		<b>.005*</b>	<b>.005*</b>	<b>.005*</b>	<b>.0006*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.107*</b>	<b>5.559</b>	<b>.004*</b>		<b>.010*</b>	<b>.004*</b>	<b>.007*</b>	<b>.0004*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.010</b>	<b>.66</b>	<b>L.001</b>		<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.040</b>	<b>.89</b>	<b>L.002</b>		<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.10</b>	<b>1.2</b>	<b>L.002</b>		<b>.002</b>	<b>.003</b>	<b>.002</b>	<b>L.0005</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.210</b>	<b>1.50</b>	<b>.003</b>		<b>.004</b>	<b>L.01</b>	<b>.005</b>	<b>L.0005</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.300</b>	<b>3.8</b>	<b>.006</b>		<b>.006</b>	<b>L.010</b>	<b>L.010</b>	<b>.0005</b>	<b>90<sup>e</sup></b>
SECONDARY CODE		04L					06L	06L	04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79

ATHABASCA RIVER SUB-BASIN

STATION 00AL07CD0001 LAT 56 D 40 M 51 S LONG 111 D 15 M 0 S

UTM 12 484700E 6281600N

OCT 03 1967 TO: A JAN 18 1978

CLEARWATER RIVER ABOVE FORT MCMURRAY  
ALBERTA

		30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBL. ZN MG/L	34102I SELENIUM DISSOLVED SE MG/L		38101P STRONTIUM DISSOLVED SR MG/L	42301P MOLYBDENUM EXTRBL. MO MG/L	48101L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBL. CD MG/L	
SAMPLES(FLAGS)	0003	10(7)	20(9)	13(13)	1(0)	16(0)	10(10)	1(1)	17(13)	ECHANTILLONS(IND.)
LOW	0001	L.001	L.001	L.0005	.12	.04	L.05	L.00	L.001	MINIMUM
HIGH	0056	L.01	.087	L.0005	.12	.23	L.10	L.00	.001	MAXIMUM
AVERAGE		.005*	.009*			.09			.001*	MOYENNE
STD.DEV.		.004*	.019*			.05			.000*	ECART-TYPE
PERCNT:10TH		L.001	L.001	L.0005		.05	L.0500		L.001	10 <sup>e</sup> PERCNT
25TH		L.001	L.001	L.0005		.06	L.05		L.001	25 <sup>e</sup>
MEDIAN 50TH		.004	.004	L.0005		.09	L.0750		L.001	50 <sup>e</sup> MEDIANE
75TH		L.01	L.010	L.0005		.11	L.10		L.001	75 <sup>e</sup>
90TH		L.010	.014	L.0005		.15	L.1000		.001	90 <sup>e</sup>
SECONDARY CODE		04L	04L			01L	02P			CODE DE SECOURS

		47301P SILVER EXTRBL. AG MG/L	51301P ANTIMONY EXTRBL. SB MG/L	56301P BARIUM EXTRBL. BA MG/L	80311P MERCURY EXTRBL. HG MG/L	81101L THALLIUM DISSOLVED TL MG/L	81301P THALLIUM EXTRBL. TL MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBL. PB MG/L	
SAMPLES(FLAGS)	0003	4(4)		17(15)	17(16)	1(1)		9(9)	20(18)	ECHANTILLONS(IND.)
LOW	0001	L.01		L.0	L.02	L.0		L.001	L.001	MINIMUM
HIGH	0056	L.01		.2	.06	L.0		L.05	.021	MAXIMUM
AVERAGE				.1*	.04*				.005*	MOYENNE
STD.DEV.				.0*	.01*				.005*	ECART-TYPE
PERCNT:10TH				L.0	L.02				L.001	10 <sup>e</sup> PERCNT
25TH		L.01		L.0	L.05			L.001	L.002	25 <sup>e</sup>
MEDIAN 50TH		L.01		L.0	L.05			L.001	L.004	50 <sup>e</sup> MEDIANE
75TH		L.01		L.1	L.05			L.05	.004*	75 <sup>e</sup>
90TH				L.1	L.05				L.010	90 <sup>e</sup>
SECONDARY CODE					14P			01L	01L	CODE DE SECOURS

		92101L URANIUM DISSOLVED U MG/L	18160L AROCLOL 1254 (PCB'S) UG/L	18161L AROCLOL 1248 (PCB'S) UG/L	18162L AROCLOL 1260 (PCB'S) UG/L	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	0001	1(0)	4(4)	4(4)	4(4)	25(1)	1(0)	22(3)	1(0)	ECHANTILLONS(IND.)
LOW	0003	.0003	L.03	L.02	L.055	L.1	218.	L.1	190.	MINIMUM
HIGH	0056	.0003	L.032	L.024	L.06	1751.	218.	1608.	190.	MAXIMUM
AVERAGE						137.*		172.*		MOYENNE
STD.DEV.						378.*		408.*		ECART-TYPE
PERCNT:10TH						2.		L.1		10 <sup>e</sup> PERCNT
25TH			L.030	L.020	L.055	8.		6.		25 <sup>e</sup>
MEDIAN 50TH			L.030	L.020	L.055	18.		13.		50 <sup>e</sup> MEDIANE
75TH			L.031	L.022	L.057	37.		38		75 <sup>e</sup>
90TH						214.		770.		90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07DA0001 LAT. 56 D 46 M 54 S LONG. 111 D 24 M 9 S

UTM 12 475400E 6292900 N  
OCT 11, 1967 TO/A JAN 18, 1978ATHABASCA RIVER AT FORT MCMURRAY,  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
SAMPLES(FLAGS)	0001	79(0)	78(0)	68(0)	77(1)	79(0)	78(0)	78(0)	78(0)	ECHANTILLONS(IND.)
LOW	0056	181.	96.	73.4	L5.	1.0	7.4	64.1	-8	MINIMUM
HIGH	0003	476.	280.	221.	200.	650.	8.6	200.	1.2	MAXIMUM
AVERAGE		295.	164.	137.0	41.*	39.7		118.8		MOYENNE
STD.DEV.		81.	48.	38.0	28.*	77.2		32.3		ECART-TYPE
PERCNT:10TH		211.	117.	102.	20.	2.9	7.7	86.0	-.2	10 <sup>e</sup> PERCNT
25TH		232.	124.	106.5	25.	6.8	7.9	93.3	.0	25 <sup>e</sup>
MEDIAN 50TH		256.	146.	121.0	30.	22.0	8.0	108.0	.2	50 <sup>e</sup> MEDIANE
75TH		373.	205.	170.5	60.	43.0	8.2	149.	.4	75 <sup>e</sup>
90TH		427.	241.	193.	80.	90.0	8.3	165.	.6	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0001	78(0)	78(0)	68(0)	23(0)	75(0)	75(0)	79(0)	78(0)	ECHANTILLONS(IND.)
LOW	0056	.6	3.6	21.2	4.3	0.	78.	.6	8.8	MINIMUM
HIGH	0003	4.0	20.8	67.2	15.0	13.	228.	40.5	55.6	MAXIMUM
AVERAGE		1.4	9.9	40.5	9.8	0.	144.	4.3	28.5	MOYENNE
STD.DEV.		.6	4.6	10.9	2.8	2.	38.	5.5	10.7	ECART-TYPE
PERCNT:10TH		.8	4.7	30.0	7.5	0.	106.	1.1	17.0	10 <sup>e</sup> PERCNT
25TH		.9	5.8	32.1	7.9	0.	114.	1.6	20.7	25 <sup>e</sup>
MEDIAN 50TH		1.2	8.4	36.9	8.7	0.	133.	2.6	26.2	50 <sup>e</sup> MEDIANE
75TH		1.8	14.	49.8	12.2	0.	180.	5.3	36.6	75 <sup>e</sup>
90TH		2.0	15.7	56.6	14.2	0.	200.	7.5	43.6	90 <sup>e</sup>
SECONDARY CODE					01L			06L	04L 06L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15314L PHOSPHORUS TOTAL INORG. PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0001	13(0)	63(7)	12(2)	15(4)	7(2)	9(0)	20(0)	77(0)	ECHANTILLONS(IND.)
LOW	0003	.2	L.005	L.1	L.002	L.002	.004	.010	.3	MINIMUM
HIGH	0056	1.7	.371	.4	.050	.023	.035	1.3	9.0	MAXIMUM
AVERAGE		.6	.073*	.2*	.014*	.011*	.013	.109	4.9	MOYENNE
STD.DEV.		.4	.070*	.1*	.015*	.008*	.010	.285	1.4	ECART-TYPE
PERCNT:10TH		.2	L.01	L.1	L.002			.014	3.3	10 <sup>e</sup> PERCNT
25TH		.3	.020	.1	L.002	L.002	.006	.018	3.9	25 <sup>e</sup>
MEDIAN 50TH		.4	.060	.2	.007	.013	.013	.029	4.8	50 <sup>e</sup> MEDIANE
75TH		.6	.110	.3	.023	.016	.016	.069	5.8	75 <sup>e</sup>
90TH		1.3	.158	.4	.040			.165	7.0	90 <sup>e</sup>
SECONDARY CODE		01L	06L		55L 59L		64L	13L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07DA0001 LAT 56 D 46 M 54 S LONG 111 D 24 M 9 S

UTM 12 475400E 6292900 N  
OCT 11 1967 TO A JAN 18 1978ATHABASCA RIVER AT FORT MCMURRAY  
ALBERTA

		03101L CARBON TOTAL ORGANIC C MG/L	03101P OXYGEN DISSOLVED DO O2 MG/L	03101L OXYGEN CONSUMED O2 MG/L	06102P PHENOLIC MATERIAL MG/L	06101L CHLORO- PHYLL A MG/L	10711L NTA NITRILOTRI ACETIC AC. H3NTA MG/L	09105L FLUORIDE DISSOLVED F MG/L	05106L BORON DISSOLVED B MG/L	
SAMPLES(FLAGS)	0001	24(0)	13(0)	5(0)	16(5)	9(3)		38(2)	16(0)	ECHANTILLONS(IND.)
LOW	0003	2.0	7.8	3.4	L.001	L.001		L.05	.03	MINIMUM
HIGH	0056	30.0	12.9	12.1	.017	.024		.23	.12	MAXIMUM
AVERAGE		12.9	10.5	6.0	.005*	.0099*		.11*	.08	MOYENNE
STD.DEV.		5.7	1.4	3.6	.004*	.0085*		.04*	.02	ECART-TYPE
PERCENT:10TH		9	9.2		L.001			.07	.05	10 <sup>e</sup> PERCNT
25TH		10.0	9.8	3.5	L.002	L.005		.08	.07	25 <sup>e</sup>
MEDIAN 50TH		12.0	10.0	5.4	.003	.009		.11	.08	50 <sup>e</sup> MEDIANE
75TH		14.0	11.3	5.5	.005	.012		.12	.08	75 <sup>e</sup>
90TH		23.	12.4		.010			.17	.10	90 <sup>e</sup>
SECONDARY CODE					35P			04L		CODE DE SECOURS

		03101L LITHIUM DISSOLVED LI MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24052L CHROMIUM DISSOLVED CR MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	
SAMPLES(FLAGS)	0003	1(1)		16(0)	10(6)	1(1)	15(15)	16(15)	19(3)	ECHANTILLONS(IND.)
LOW	0001	L.005		.031	L.001	L.004	L.010	L.010	L.01	MINIMUM
HIGH	0056	L.005		1.5	.003	L.004	L.015	.01	.16	MAXIMUM
AVERAGE				.309	.0014*			.010*	.04*	MOYENNE
STD.DEV.				.384	.0007*			.000*	.04*	ECART-TYPE
PERCENT:10TH				.035	L.0010		L.010	L.010	L.01	10 <sup>e</sup> PERCNT
25TH				.077	L.001		L.010	L.010	.01	25 <sup>e</sup>
MEDIAN 50TH				.185	L.0010		L.015	L.010	.03	50 <sup>e</sup> MEDIANE
75TH				.365	.002		L.015	L.010	.06	75 <sup>e</sup>
90TH				.75	.0025		L.015	L.01	.13	90 <sup>e</sup>
SECONDARY CODE				05P				04L	04L	CODE DE SECOURS

		26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	28101L NICKEL DISSOLVED NI MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0001	20(2)	16(0)	16(8)	1(1)	16(6)	12(6)	22(9)	14(8)	ECHANTILLONS(IND.)
LOW	0003	L.001	.25	L.001	L.00	L.001	L.001	L.001	L.0005	MINIMUM
HIGH	0056	.340	4.7	.005	L.00	.009	L.01	.01	.0056	MAXIMUM
AVERAGE		.093*	1.091	.003*		.004*	.006*	.005*	.0009*	MOYENNE
STD.DEV.		.092*	1.217	.001*		.003*	.004*	.004*	.0014*	ECART-TYPE
PERCENT:10TH		.010	.27	L.002		L.001	.002	L.001	L.0005	10 <sup>e</sup> PERCNT
25TH		.020	.355	L.002		L.002	.002	.001	L.0005	25 <sup>e</sup>
MEDIAN 50TH		.060	.695	.002*		.003	.004	.004	L.0005	50 <sup>e</sup> MEDIANE
75TH		.140	1.150	.004		.006	L.010	L.01	.0006	75 <sup>e</sup>
90TH		.230	3.2	.005		.007	L.01	L.01	.0009	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AL07DA0001** LAT. **56 D 46 M 54 S** LONG. **111 D 24 M 9 S**UTM **12 475400 E 6292900 N**  
OCT 11, 1967 TO/A JAN 18, 1978ATHABASCA RIVER AT FORT MCMURRAY,  
ALBERTA

		30105L ZINC DISSOLVED	30305P ZINC EXTRBLE.	34102L SELENIUM DISSOLVED	38101L STRONTIUM DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	48101L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	
	SUBM ID	ZN MG/L	ZN MG/L	SE MG/L	SR MG/L	MO MG/L	MO MG/L	CD MG/L	CD MG/L	
<b>SAMPLES(FLAGS)</b>	0001	12(6)	22(8)	13(12)	1(0)	16(0)	9(9)	1(1)	16(15)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>.20</b>	<b>.16</b>	<b>L.05</b>	<b>L.00</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>	0003	<b>.011</b>	<b>.024</b>	<b>.0028</b>	<b>.20</b>	<b>.44</b>	<b>L.10</b>	<b>L.00</b>	<b>.002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.007*</b>	<b>.008*</b>	<b>.0007*</b>		<b>.24</b>			<b>.001*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.004*</b>	<b>.007*</b>	<b>.0006*</b>		<b>.08</b>			<b>.000*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.002	.001	L.0005	.17				L.001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.003	.002	L.0005	.19	L.05			L.001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.010</b>	<b>.008*</b>	<b>L.0005</b>	<b>.20</b>	<b>L.10</b>			<b>L.001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		L.010	L.01	L.0005	.30	L.10			L.001	<b>75<sup>e</sup></b>
<b>90TH</b>		.01	.018	L.0005	.37				L.001	<b>90<sup>e</sup></b>
SECONDARY CODE		04L	04L			01L	02P			CODE DE SECOURS

		47301P SILVER EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81101L THALLIUM DISSOLVED	81301P THALLIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	
	SUBM ID	AG MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	TL MG/L	PB MG/L	PB MG/L	
<b>SAMPLES(FLAGS)</b>	0001	3(3)		16(6)	15(15)	1(1)		12(11)	22(18)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	<b>L.01</b>		<b>L.0</b>	<b>L.02</b>	<b>L.0</b>		<b>L.001</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>	0056	<b>L.01</b>		<b>.1</b>	<b>L.05</b>	<b>L.0</b>		<b>L.05</b>	<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.1*</b>				<b>.022*</b>	<b>.005*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>.0*</b>				<b>.025*</b>	<b>.003*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				L.0	L.02			L.001	L.001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				.1	L.02			L.001	L.004	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.01</b>		<b>.1</b>	<b>L.05</b>			<b>.005*</b>	<b>L.004</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				L.1	L.05			L.050	L.01	<b>75<sup>e</sup></b>
<b>90TH</b>				L.1	L.05			L.05	L.01	<b>90<sup>e</sup></b>
SECONDARY CODE					13P			01L	01L	CODE DE SECOURS

		92101L URANIUM DISSOLVED	18160L AROCLO 1254 (PCB'S)	18161L AROCLO 1248 (PCB'S)	18162L AROCLO 1260 (PCB'S)	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
	SUBM ID	U MG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0001	1(0)	3(3)	3(3)	3(3)	29(0)	1(0)	26(1)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	<b>.0004</b>	<b>L.03</b>	<b>L.02</b>	<b>L.055</b>	<b>3.</b>	<b>212.</b>	<b>L.1.</b>	<b>177.</b>	<b>MINIMUM</b>
<b>HIGH</b>	0003	<b>.0004</b>	<b>L.03</b>	<b>L.02</b>	<b>L.06</b>	<b>865.</b>	<b>212.</b>	<b>810.</b>	<b>177.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>						<b>153.</b>		<b>146.*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>						<b>242.</b>		<b>232.*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>						6.		3.		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						15.		10.		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>L.03</b>	<b>L.02</b>	<b>L.055</b>	<b>48.</b>		<b>40.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						185.		165.		<b>75<sup>e</sup></b>
<b>90TH</b>						640.		570.		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AL07DA0003 LAT. 57 D 11M 12 S LONG. 111 D 37M 30 S

UTM 12 462200E 6338200 N  
AUG 07 1974 TO A JAN 17 1978ATHABASCA RIVER AT FORT MACKAY  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CALCO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0003	13(0)	13(0)	3(0)	13(1)	13(0)	13(0)	13(0)	13(0)	ECHANTILLONS(IND.)
LOW		196.	107.	104.	15.	3.5	7.4	81.	-5	MINIMUM
HIGH		641.	360.	139.	100.	78.	8.4	250.	.5	MAXIMUM
AVERAGE		286.	158.	120.7	49.*	22.4		111.1		MOYENNE
STD.DEV.		120.	66.	17.6	30.*	23.5		44.0		ECART-TYPE
PERCNT:10TH		197.	109.		5.	3.6	7.5	82.1	-5	10 <sup>e</sup> PERCNT
25TH		207.	123.		25.	7.8	7.7	89.0	-4	25 <sup>e</sup>
MEDIAN 50TH		250.	140.	119.	50.	10.	7.9	99.	-2	50 <sup>e</sup> MEDIANE
75TH		325.	170.		70.	30.	8.1	112.	.3	75 <sup>e</sup>
90TH		334.	177.		80.	57.	8.3	128.	.3	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0003	13(0)	13(0)	13(0)	4(0)	13(0)	13(0)	13(0)	13(0)	ECHANTILLONS(IND.)
LOW		.8	5.7	24.6	7.1	0.	99.	1.4	11.	MINIMUM
HIGH		3.3	33.	80.1	8.9	0.	305.	25.	47.	MAXIMUM
AVERAGE		1.3	14.3	36.12	7.8	0.	135.	9.1	21.2	MOYENNE
STD.DEV.		.7	8.3	14.11	.9	0.	54.	9.5	9.1	ECART-TYPE
PERCNT:10TH		.8	6.7	27.0		0.	100.	2.1	12.1	10 <sup>e</sup> PERCNT
25TH		.9	8.6	28.3	7.1	0.	108.	2.7	15.	25 <sup>e</sup>
MEDIAN 50TH		1.2	9.8	34.0	7.6	0.	121.	3.6	22.	50 <sup>e</sup> MEDIANE
75TH		1.4	20.	37.2	8.5	0.	137.	17.	23.	75 <sup>e</sup>
90TH		1.7	23.	41.		0.	156.	25.	25.	90 <sup>e</sup>
SECONDARY CODE				03L				06L	06L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	O2 MG/L	
SAMPLES(FLAGS)	0003	11(0)	7(3)			13(0)	13(0)	13(0)	12(0)	ECHANTILLONS(IND.)
LOW		.2	L.01			.015	3.1	8.	8.7	MINIMUM
HIGH		.8	.24			.13	14.	22.	12.8	MAXIMUM
AVERAGE		.5	.065*			.055	6.65	14.8	10.5	MOYENNE
STD.DEV.		.2	.089*			.041	2.99	5.5	1.5	ECART-TYPE
PERCNT:10TH		.3				.02	4.4	8.	9.3	10 <sup>e</sup> PERCNT
25TH		.4	L.01			.025	4.6	10.	9.4	25 <sup>e</sup>
MEDIAN 50TH		.6	.01			.033	5.0	15.	10.0	50 <sup>e</sup> MEDIANE
75TH		.6	.13			.081	8.8	20.	12.0	75 <sup>e</sup>
90TH		.7				.129	9.2	22.	12.8	90 <sup>e</sup>
SECONDARY CODE						06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AL07DA0003 LAT. 57 D 11M 12 S LONG. 111 D 37M 30 S

UTM 12 462200E 6338200 N  
AUG 07, 1974 TO/A JAN 17, 1978ATHABASCA RIVER AT FORT MACKAY  
ALBERTA

		05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	
SAMPLES(FLAGS)	0003	13(0)	13(0)	10(5)	13(13)	13(0)		13(0)	13(7)	ECHANTILLONS(IND.)
LOW		.06	.020	L.001	L.015	.02		.38	L.002	MINIMUM
HIGH		.15	.1	.003	L.015	.13		2.5	.005	MAXIMUM
AVERAGE		.11	.243	.0014*		.05		.96	.003*	MOYENNE
STD.DEV.		.03	.366	.0007*		.04		.74	.001*	ECART-TYPE
PERCNT:10TH		.08	.029	L.0010	L.015	.02		.44	L.002	10 <sup>e</sup> PERCNT
25TH		.09	.032	L.001	L.015	.03		.47	L.002	25 <sup>e</sup>
MEDIAN 50TH		.10	.082	.0010*	L.015	.04		.63	L.002	50 <sup>e</sup> MEDIANE
75TH		.13	.24	.002	L.015	.06		1.10	.003	75 <sup>e</sup>
90TH		.15	.59	.0025	L.015	.11		2.5	.004	90 <sup>e</sup>
SECONDARY CODE			05P							CODE DE SECOURS

		28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS)	0003	13(4)	13(3)	13(2)	13(9)	13(13)	13(0)	5(5)		ECHANTILLONS(IND.)
LOW		L.002	L.001	L.001	L.0005	L.0005	.13	L.10		MINIMUM
HIGH		.011	.007	.016	.0051	L.0005	.52	L.10		MAXIMUM
AVERAGE		.004*	.003*	.004*	.0009*		.22			MOYENNE
STD.DEV.		.003*	.002*	.005*	.0013*		.10			ECART-TYPE
PERCNT:10TH		L.002	L.001	L.001	L.0005	L.0005	.15			10 <sup>e</sup> PERCNT
25TH		L.002	.001	.001	L.0005	L.0005	.17	L.10		25 <sup>e</sup>
MEDIAN 50TH		.003	.002	.002	L.0005	L.0005	.19	L.10		50 <sup>e</sup> MEDIANE
75TH		.004	.004	.008	.0005	L.0005	.24	L.10		75 <sup>e</sup>
90TH		.007	.007	.009	.0007	L.0005	.25			90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	06535P PHENOLIC MATERIAL	06604P CYANIDE DISSOLVED	09105L FLUORIDE DISSOLVED	
	SUBM ID	CD MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PHENOL MG/L	CN MG/L	F MG/L	
SAMPLES(FLAGS)	0003	13(12)	13(7)	13(13)		13(11)	13(2)	13(7)	13(0)	ECHANTILLONS(IND.)
LOW		L.001	L.0	L.02		L.004	L.001	L.005	.06	MINIMUM
HIGH		.002	.1	L.05		.006	.017	.034	.18	MAXIMUM
AVERAGE		.001*	.1*			.004*	.007*	.009*	.10	MOYENNE
STD.DEV.		.000*	.0*			.001*	.006*	.008*	.04	ECART-TYPE
PERCNT:10TH		L.001	L.0	L.02		L.004	.001	L.005	.07	10 <sup>e</sup> PERCNT
25TH		L.001	L.0	L.02		L.004	L.002	L.005	.07	25 <sup>e</sup>
MEDIAN 50TH		L.001	.1	L.05		L.004	.004	L.005	.09	50 <sup>e</sup> MEDIANE
75TH		L.001	.1	L.05		L.004	.012	.009	.11	75 <sup>e</sup>
90TH		L.001	L.1	L.05		.004	.015	.010	.15	90 <sup>e</sup>
SECONDARY CODE				13P			32P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AL07DA0003 LAT. 57 D 11 M 12 S LONG. 111 D 37 M 30 S

UTM 12 462200E 6338200N  
JAN 23 1975 TO/A JAN 17 1978

ATHABASCA RIVER AT FORT MACKAY  
ALBERTA

	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36102F FECAL STREP.	36905L STD. PLATE COUNT 35 DEG.C. BACT DENS	18130L ALDRIN	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)
SUBM ID	MF NO-DL	MF NO-DL	MF NO-DL	NO-ML	UG/L	UG/L	UG/L	UG/L
SAMPLES(FLAGS) 0003						6(0)	8(7)	ECHANTILLONS(IND.)
LOW						.001	L.001	MINIMUM
HIGH						.004	.001	MAXIMUM
AVERAGE						.003	.001*	MOYENNE
STD.DEV.						.001	.000*	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH						.002	L.001	25 <sup>e</sup>
MEDIAN 50TH						.003	L.001	50 <sup>e</sup> MEDIANE
75TH						.003	L.001	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE								CODE DE SECOURS

	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
SAMPLES(FLAGS) 0003	6(6)							ECHANTILLONS(IND.)
LOW	L.004							MINIMUM
HIGH	L.004							MAXIMUM
AVERAGE								MOYENNE
STD.DEV.								ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	L.004							25 <sup>e</sup>
MEDIAN 50TH	L.004							50 <sup>e</sup> MEDIANE
75TH	L.004							75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE								CODE DE SECOURS

	18520L MCPA	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
SAMPLES(FLAGS) 0003	7(7)		6(6)	6(6)	6(6)	10(10)	10(10)	10(10)
LOW	L.2		L.004	L.002	L.009	L.002	L.002	L.005
HIGH	L.2		L.004	L.002	L.009	L.03	L.02	L.06
AVERAGE								
STD.DEV.								
PERCNT:10TH						L.002	L.002	L.005
25TH	L.2		L.004	L.002	L.009	L.002	L.002	L.005
MEDIAN 50TH	L.2		L.004	L.002	L.009	L.030	L.020	L.060
75TH	L.2		L.004	L.002	L.009	L.03	L.02	L.06
90TH						L.030	L.020	L.060
SECONDARY CODE								CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07AD0001** LAT. **53 D 24 M 45 S** LONG. **117 D 35 M 15 S**

UTM **11 461000E 5918100 N**  
JAN 13, 1970 TO/A MAR 04, 1976

ATHABASCA RIVER AT HINTON

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	21(0)	12(2)	26(0)		28(1)	32(0)	32(0)		ECHANTILLONS(IND.)
LOW	180.	Q100.	100.		2.	5.8	41.		MINIMUM
HIGH	405.	259.	245.		43.	8.6	190.		MAXIMUM
AVERAGE	330.	194.*	181.8		10.0*		117.3		MOYENNE
STD.DEV.	67.	58.*	37.7		10.5*		29.5		ECART-TYPE
PERCNT:10TH	225.	101.	115.		2.	7.3	72.		10 <sup>e</sup> PERCNT
25TH	285.	140.	163.		3.0	7.8	110.0		25 <sup>e</sup>
MEDIAN 50TH	350.	220.	191.5		6.0	8.0	121.0		50 <sup>e</sup> MEDIANE
75TH	380.	237.	205.		13.5	8.1	136.5		75 <sup>e</sup>
90TH	387.	251.	220.		31.	8.3	141.		90 <sup>e</sup>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	9(0)	22(1)	13(0)	21(0)	13(0)	13(0)	33(6)	32(0)	ECHANTILLONS(IND.)
LOW	.2	L1.	19.	6.	0.	50.	0.	16.	MINIMUM
HIGH	1.5	6.	60.	27.	6.	172.	21.	114.	MAXIMUM
AVERAGE	.7	2.9*	41.26	14.9	0.	115.	3.4*	70.0	MOYENNE
STD.DEV.	.4	1.7*	12.66	5.7	2.	35.	4.3*	25.7	ECART-TYPE
PERCNT:10TH		1.	22.	7.	0.	77.	L1.	28.5	10 <sup>e</sup> PERCNT
25TH	.6	2.	32.	11.	0.	88.	1.	52.5	25 <sup>e</sup>
MEDIAN 50TH	.7	2.0	44.	15.	0.	122.	2.	75.0	50 <sup>e</sup> MEDIANE
75TH	.8	4.	50.	17.	0.	140.	3.	90.0	75 <sup>e</sup>
90TH		6.	52.	21.	0.	147.	10.	95.	90 <sup>e</sup>
SECONDARY CODE		02L	03L	03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SAMPLES(FLAGS)	22(6)	9(4)	30(0)	30(0)	22(1)	6(0)	19(0)	9(0)	ECHANTILLONS(IND.)
LOW	1.	L.05	0.	0.	10.	22.	156.	110.	MINIMUM
HIGH	5.	3.40	54.	1800.	21000.	281.	400.	340.	MAXIMUM
AVERAGE	1.*	.57*	6.	155.	4499.*	81.	282.	216.	MOYENNE
STD.DEV.	1.*	1.10*	11.	368.	7051.*	99.	68.	81.	ECART-TYPE
PERCNT:10TH	1.		0.	0.	30.		164.		10 <sup>e</sup> PERCNT
25TH	1.	L.05	0.	8.	100.	38.	254.	170.	25 <sup>e</sup>
MEDIAN 50TH	L1.	.18	2.	22.	625.	44.	276.	192.	50 <sup>e</sup> MEDIANE
75TH	2.	.20	7.	110.	5000.	58.	314.	274.	75 <sup>e</sup>
90TH	3.		13.	445.	18000.		396.		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07AD0001 LAT 53 D 24 M 45 S LONG. 117 D 35 M 15 S

UTM 11 461000E 5918100 N

JAN 13 1970 TO/A MAR 04 1976

## ATHABASCA RIVER AT HINTON

	07107L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL CALCULATED N MG/L	15419L PHOSPHORUS TOTAL PHOSPHATE P MG/L	15406L PHOSPHORUS TOTAL PHOSPHATE P MG/L	08101L OXYGEN DISSOLVED O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	32(16)	14(13)	31(18)	1(1)	22(5)	22(5)	30(0)	30(2)	ECHANTILLONS(IND.)
LOW	.0	L.1	.0	Q.300	.0	.0	9.0	L.05	MINIMUM
HIGH	1.1	.1	.4	Q.300	1.6	1.6	13.6	.46	MAXIMUM
AVERAGE	.153*	.100*	.148*		.269*	.269*	11.6	.18*	MOYENNE
STD.DEV.	.197*	.000*	.089*		.370*	.370*	.9	.10*	ECART-TYPE
PERCNT:10TH	L.1	L.1	.0		L.1	L.1	10.4	.07	10 <sup>e</sup> PERCNT
25TH	L.100	L.1	L.1		L.1	L.1	11.1	.10	25 <sup>e</sup>
MEDIAN 50TH	L.100	L.100	L.2		.100	.100	11.6	.17	50 <sup>e</sup> MEDIANE
75TH	.100	L.1	L.2		.3	.3	12.2	.21	75 <sup>e</sup>
90TH	.4	L.1	.2		.5	.5	12.6	.30	90 <sup>e</sup>
SECONDARY CODE	06L	06L	55L		06L			07L	CODE DE SECOURS

	24003L CHROMIUM TOTAL CR MG/L	25006L MANGANESE TOTAL MN MG/L	26002L IRON TOTAL FE MG/L	26302L IRON EXTRBL. FE MG/L	27004L COBALT TOTAL CO MG/L	28004L NICKEL TOTAL NI MG/L	29008L COPPER TOTAL CU MG/L	30006L ZINC TOTAL ZN MG/L	
SAMPLES(FLAGS)	7(4)	14(0)	13(6)	8(1)	14(8)	14(1)	14(3)	10(2)	ECHANTILLONS(IND.)
LOW	L.001	.000	L.1	L.1	L.001	L.001	L.001	L.01	MINIMUM
HIGH	.008	.060	.9	.5	.026	.025	.025	.40	MAXIMUM
AVERAGE	.003*	.012	.300*	.200*	.004*	.009*	.007*	.051*	MOYENNE
STD.DEV.	.003*	.018	.271*	.141*	.007*	.009*	.006*	.123*	ECART-TYPE
PERCNT:10TH		.000	L.1		L.001	.002	L.001	L.010	10 <sup>e</sup> PERCNT
25TH	L.001	.000	L.1	.100	L.001	.003	.003	.01	25 <sup>e</sup>
MEDIAN 50TH	L.001	.008	.1	.150	L.001	.006	.005	.011	50 <sup>e</sup> MEDIANE
75TH	.005	.012	.5	.250	.004	.010	.008	.015	75 <sup>e</sup>
90TH		.037	.6		.006	.025	.012	.210	90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

	33003L ARSENIC TOTAL AS MG/L	47003L SILVER TOTAL AG MG/L	48004L CADMIUM TOTAL CD MG/L	80002L MERCURY TOTAL HG MG/L	82005L LEAD TOTAL PB MG/L	08201L OXYGEN BIOCHEM. DEMAND-BOD O2 MG/L	06531L PHENOLIC MATERIAL PHENOL MG/L	06551L TANNIN AND LIGNIN T&L MG/L	
SAMPLES(FLAGS)	1(1)	3(2)	14(11)	18(11)	14(3)	32(8)	31(4)	30(3)	ECHANTILLONS(IND.)
LOW	L.002	L.001	L.001	.0001	L.001	L.1	.000	L.1	MINIMUM
HIGH	L.002	.005	.007	.0037	.016	4.2	.016	1.1	MAXIMUM
AVERAGE		.002*	.001*	.00063*	.007*	.9*	.004*	.43*	MOYENNE
STD.DEV.		.002*	.002*	.00096*	.005*	.8*	.005*	.23*	ECART-TYPE
PERCNT:10TH			L.001	.0001	L.001	.2	.000	.10*	10 <sup>e</sup> PERCNT
25TH			L.001	.0001	.002	.4	L.001	.2	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	.00030	.006	.8	.002	.40	50 <sup>e</sup> MEDIANE
75TH			L.001	.0005	.009	L1.0	.005	.6	75 <sup>e</sup>
90TH			.001	.0026	.014	1.2	.010	.70	90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L	32L		CODE DE SECOURS

\* These statistics include flagged values./Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07AD0002** LAT. **53 D 42 M 9 S** LONG. **117 D 9 M 45 S**UTM **11 489300E 5950200 N**  
NOV 20, 1974 TO/A MAR 04, 1976

## ATHABASCA RIVER - BELOW HINTON

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>5(0)</b>		<b>5(0)</b>		<b>3(0)</b>	<b>5(0)</b>	<b>5(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	<b>250.</b>		<b>116.</b>		<b>3.</b>	<b>7.3</b>	<b>86.</b>		<b>MINIMUM</b>
HIGH	<b>485.</b>		<b>258.</b>		<b>8.</b>	<b>8.5</b>	<b>143.</b>		<b>MAXIMUM</b>
AVERAGE	<b>397.</b>		<b>193.8</b>		<b>6.3</b>		<b>119.2</b>		<b>MOYENNE</b>
STD.DEV.	<b>94.</b>		<b>56.0</b>		<b>2.9</b>		<b>22.0</b>		<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH	<b>370.</b>		<b>173.</b>			<b>7.4</b>	<b>110.</b>		<b>25<sup>e</sup></b>
MEDIAN 50TH	<b>410.</b>		<b>185.</b>		<b>8.</b>	<b>7.8</b>	<b>127.</b>		<b>50<sup>e</sup> MEDIANE</b>
75TH	<b>470.</b>		<b>237.</b>			<b>8.0</b>	<b>130.</b>		<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE			<b>04L</b>						<b>CODE DE SECOURS</b>

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>		<b>5(0)</b>		<b>5(0)</b>	<b>4(0)</b>	<b>4(0)</b>	<b>5(0)</b>	<b>5(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW		<b>1.</b>		<b>9.</b>	<b>0.</b>	<b>116.</b>	<b>6.</b>	<b>25.</b>	<b>MINIMUM</b>
HIGH		<b>14.</b>		<b>18.</b>	<b>9.</b>	<b>174.</b>	<b>26.</b>	<b>107.</b>	<b>MAXIMUM</b>
AVERAGE		<b>8.0</b>		<b>14.6</b>	<b>2.</b>	<b>151.</b>	<b>14.2</b>	<b>67.6</b>	<b>MOYENNE</b>
STD.DEV.		<b>4.9</b>		<b>3.5</b>	<b>4.</b>	<b>25.</b>	<b>8.8</b>	<b>29.9</b>	<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH		<b>6.</b>		<b>14.</b>	<b>0.</b>	<b>135.</b>	<b>8.</b>	<b>60.</b>	<b>25<sup>e</sup></b>
MEDIAN 50TH		<b>8.</b>		<b>15.</b>	<b>0.</b>	<b>157.</b>	<b>10.</b>	<b>66.</b>	<b>50<sup>e</sup> MEDIANE</b>
75TH		<b>11.</b>		<b>17.</b>	<b>5.</b>	<b>166.</b>	<b>21.</b>	<b>80.</b>	<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE		<b>02L</b>					<b>03L</b>	<b>06L</b>	<b>CODE DE SECOURS</b>

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>1(1)</b>	<b>5(1)</b>	<b>5(0)</b>	<b>5(0)</b>		<b>2(1)</b>			<b>ECHANTILLONS(IND.)</b>
LOW	<b>L1.</b>	<b>L.05</b>	<b>0.</b>	<b>130.</b>		<b>L10.</b>			<b>MINIMUM</b>
HIGH	<b>L1.</b>	<b>1.14</b>	<b>220.</b>	<b>2400.</b>		<b>274.</b>			<b>MAXIMUM</b>
AVERAGE	<b>.39*</b>	<b>62.</b>	<b>824.</b>			<b>142.*</b>			<b>MOYENNE</b>
STD.DEV.	<b>.45*</b>	<b>93.</b>	<b>906.</b>			<b>187.*</b>			<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH		<b>.09</b>	<b>0.</b>	<b>350.</b>					<b>25<sup>e</sup></b>
MEDIAN 50TH		<b>.20</b>	<b>22.</b>	<b>540.</b>		<b>142.*</b>			<b>50<sup>e</sup> MEDIANE</b>
75TH		<b>.48</b>	<b>70.</b>	<b>700.</b>					<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE									<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07AD0002 LAT. 53 D 42 M 9 S LONG. 117 D 9 M 45 S

UTM 11 489300E 5950200 N  
NOV 20 1974 TO/A MAR 04 1976

## ATHABASCA RIVER - BELOW HINTON

	07107L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL CALCULATED N MG/L	15419L PHOSPHORUS TOTAL PHOSPHATE P MG/L	15406L PHOSPHORUS TOTAL PHOSPHATE P MG/L	08101L OXYGEN DISSOLVED DO O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	4(4)	5(5)	5(5)	1(1)			5(0)	5(1)	ECHANTILLONS(IND.)
LOW	L.1	L.1	L.2	Q.500			7.4	L.05	MINIMUM
HIGH	L.1	L.1	L.2	Q.500			12.1	1.04	MAXIMUM
AVERAGE							10.2	.33*	MOYENNE
STD.DEV.							1.9	.40*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.100	L.1	L.2				9.0	.16	25 <sup>e</sup>
MEDIAN 50TH	L.100	L.1	L.2				10.8	.18	50 <sup>e</sup> MEDIANE
75TH	L.100	L.1	L.2				11.5	.22	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		06L	55L					07L	CODE DE SECOURS

	24003L CHROMIUM TOTAL CR MG/L	25006L MANGANESE TOTAL MN MG/L	26002L IRON TOTAL FE MG/L	26302L IRON EXTRBL. FE MG/L	27004L COBALT TOTAL CO MG/L	28004L NICKEL TOTAL NI MG/L	29008L COPPER TOTAL CU MG/L	30006L ZINC TOTAL ZN MG/L	
SAMPLES(FLAGS)	1(1)			5(0)					ECHANTILLONS(IND.)
LOW	L.001			.1					MINIMUM
HIGH	L.001			.5					MAXIMUM
AVERAGE				.220					MOYENNE
STD.DEV.				.164					ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				.1					25 <sup>e</sup>
MEDIAN 50TH				.2					50 <sup>e</sup> MEDIANE
75TH				.2					75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L								CODE DE SECOURS

	33003L ARSENIC TOTAL AS MG/L	47003L SILVER TOTAL AG MG/L	48004L CADMIUM TOTAL CD MG/L	80002L MERCURY TOTAL HG MG/L	82005L LEAD TOTAL PB MG/L	08201L OXYGEN BIOCHEM. DEMAND-BOD O2 MG/L	06531L PHENOLIC MATERIAL PHENOL MG/L	06551L TANNIN AND LIGNIN T&L MG/L	
SAMPLES(FLAGS)			1(1)	4(3)	1(1)	5(1)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW			L.001	.0001	L.001	L.10	.004	.5	MINIMUM
HIGH			L.001	.0001	L.001	3.4	.014	2.3	MAXIMUM
AVERAGE				.00010*		2.0*	.010	1.48	MOYENNE
STD.DEV.				.00000*		1.0*	.004	.69	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				.00010		1.4	.010	1.2	25 <sup>e</sup>
MEDIAN 50TH				.00010		1.5	.011	1.5	50 <sup>e</sup> MEDIANE
75TH				.00010*		2.5	.013	1.9	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L	32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07AG0001** LAT. **54 D 9 M 9 S** LONG. **115 D 43 M 15 S**UTM **11 583600 E 6001100 N**  
JAN 13, 1970 TO/A MAR 04, 1976

## ATHABASCA RIVER AT WHITECOURT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>10(4)</b>	<b>14(0)</b>		<b>25(1)</b>	<b>29(0)</b>	<b>27(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>210.</b>	<b>Q115.</b>	<b>90.</b>		<b>1.</b>	<b>7.4</b>	<b>77.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>455.</b>	<b>264.</b>	<b>245.0</b>		<b>20.</b>	<b>8.3</b>	<b>231.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>365.</b>	<b>197.*</b>	<b>196.7</b>		<b>5.9*</b>		<b>150.5</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>77.</b>	<b>58.*</b>	<b>42.0</b>		<b>4.8*</b>		<b>34.9</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>220.</b>	<b>115.</b>	<b>144.</b>		<b>2.</b>	<b>7.5</b>	<b>85.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>320.</b>	<b>Q144.</b>	<b>170.0</b>		<b>2.</b>	<b>7.9</b>	<b>129.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>383.</b>	<b>215.</b>	<b>207.5</b>		<b>4.</b>	<b>7.9</b>	<b>154.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>440.</b>	<b>Q238.</b>	<b>227.</b>		<b>8.</b>	<b>8.3</b>	<b>170.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>440.</b>	<b>262.</b>	<b>244.</b>		<b>13.</b>	<b>8.3</b>	<b>189.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L 05L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>8(0)</b>	<b>19(0)</b>	<b>11(0)</b>	<b>18(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>28(5)</b>	<b>25(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.0</b>	<b>2.</b>	<b>30.</b>	<b>3.</b>	<b>0.</b>	<b>94.</b>	<b>0.</b>	<b>L10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.6</b>	<b>17.</b>	<b>61.</b>	<b>35.0</b>	<b>0.</b>	<b>223.</b>	<b>22.0</b>	<b>95.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.9</b>	<b>7.4</b>	<b>39.91</b>	<b>15.9</b>	<b>0.</b>	<b>159.</b>	<b>7.8*</b>	<b>56.7*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.5</b>	<b>4.1</b>	<b>10.44</b>	<b>8.4</b>	<b>0.</b>	<b>45.</b>	<b>5.9*</b>	<b>24.0*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>3.</b>	<b>30.</b>	<b>7.</b>	<b>0.</b>	<b>102.</b>	<b>L1.</b>	<b>21.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.5</b>	<b>5.0</b>	<b>31.</b>	<b>12.</b>	<b>0.</b>	<b>104.</b>	<b>2.0</b>	<b>39.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.9</b>	<b>7.</b>	<b>36.</b>	<b>13.5</b>	<b>0.</b>	<b>174.</b>	<b>7.0</b>	<b>64.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.3</b>	<b>9.0</b>	<b>45.0</b>	<b>17.</b>	<b>0.</b>	<b>188.</b>	<b>12.0</b>	<b>74.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>17.</b>	<b>55.</b>	<b>33.</b>	<b>0.</b>	<b>213.</b>	<b>16.</b>	<b>84.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE		02L	03L	03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	10571L RESIDUE FIXED TOTAL	
SUBM ID	MG/L	MG/L	MPN NO/DL	MPN NO/DL	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>21(6)</b>	<b>6(2)</b>	<b>27(0)</b>	<b>27(1)</b>	<b>21(1)</b>	<b>6(1)</b>	<b>20(0)</b>	<b>8(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0.</b>	<b>.04</b>	<b>0.</b>	<b>0.</b>	<b>330.</b>	<b>6.</b>	<b>129.</b>	<b>134.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>3.</b>	<b>.40</b>	<b>11.</b>	<b>G1800.</b>	<b>96000.</b>	<b>67.</b>	<b>402.</b>	<b>312.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.*</b>	<b>.15*</b>	<b>2.</b>	<b>128.*</b>	<b>18692.*</b>	<b>35.*</b>	<b>290.</b>	<b>226.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.*</b>	<b>.15*</b>	<b>3.</b>	<b>379.*</b>	<b>26624.*</b>	<b>25.*</b>	<b>69.</b>	<b>62.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.</b>		<b>0.</b>	<b>0.</b>	<b>700.</b>		<b>193.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.</b>	<b>L.05</b>	<b>0.</b>	<b>4.</b>	<b>2200.</b>	<b>L10.</b>	<b>244.</b>	<b>171.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L1.</b>	<b>.08*</b>	<b>0.</b>	<b>11.</b>	<b>4000.</b>	<b>34.</b>	<b>301.</b>	<b>239.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.</b>	<b>.25</b>	<b>2.</b>	<b>37.</b>	<b>31500.</b>	<b>62.</b>	<b>325.</b>	<b>270.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.</b>		<b>7.</b>	<b>240.</b>	<b>45000.</b>		<b>375.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79

ATHABASCA RIVER SUB BASIN

STATION 00AT07AG0001 LAT. 54 D 9 M 9 S LONG. 115 D 43 M 15 S

UTM 11 583600E 6001100 N  
JAN 13 1970 TO/A MAR 04 1976

ATHABASCA RIVER AT WHITECOURT

SUBM ID	07107L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15419L PHOSPHORUS TOTAL PHOSPHATE	15406L PHOSPHORUS TOTAL PHOSPHATE	08101L OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED F	ECHANTILLONS(IND.)
	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	O2 MG/L	MG/L	
SAMPLES(FLAGS)	28(12)	10(10)	29(13)	1(1)	21(3)	21(3)	29(0)	16(2)	
LOW	.0	L.1	L.1	Q1.133	.0	.0	7.2	L.05	MINIMUM
HIGH	1.1	L.1	1.0	Q1.133	.9	.9	14.1	.22	MAXIMUM
AVERAGE	.150*		.276*		.217*	.217*	11.0	.15*	MOYENNE
STD.DEV.	.199*		.166*		.211*	.211*	1.9	.06*	ECART-TYPE
PERCNT:10TH	L.1	L.100	L.2		L.1	L.1	8.2	L.05	10 <sup>e</sup> PERCNT
25TH	L.100	L.1	L.2		.1	.1	9.5	.11	25 <sup>e</sup>
MEDIAN 50TH	.100	L.100	.2		.1	.1	11.0	.17	50 <sup>e</sup> MEDIANE
75TH	.100	L.1	.3		.25	.25	12.6	.20	75 <sup>e</sup>
90TH	.3	L.100	.4		.5	.5	13.1	.21	90 <sup>e</sup>
SECONDARY CODE	06L	06L	55L		06L			07L	CODE DE SECOURS

SUBM ID	24003L CHROMIUM TOTAL CR	25006L MANGANESE TOTAL MN	26002L IRON TOTAL FE	26302L IRON EXTRBL. FE	27004L COBALT TOTAL CO	28004L NICKEL TOTAL NI	29008L COPPER TOTAL CU	30006L ZINC TOTAL ZN	ECHANTILLONS(IND.)
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	7(2)	13(0)	11(1)	7(1)	13(5)	13(1)	13(1)	10(0)	
LOW	L.001	.000	L.1	L.1	L.001	L.001	L.001	.006	MINIMUM
HIGH	.010	.081	1.6	.4	.012	.067	.110	.05	MAXIMUM
AVERAGE	.006*	.014	.309*	.200*	.003*	.011*	.021*	.023	MOYENNE
STD.DEV.	.004*	.022	.476*	.115*	.003*	.017*	.031*	.011	ECART-TYPE
PERCNT:10TH		.000	.1		L.001	.003	.002	.013	10 <sup>e</sup> PERCNT
25TH	L.001	.000	.1	.1	L.001	.004	.004	.02	25 <sup>e</sup>
MEDIAN 50TH	.007	.007	.1	.2	.004	.007	.010	.021	50 <sup>e</sup> MEDIANE
75TH	.008	.018	.2	.3	.004	.010	.018	.025	75 <sup>e</sup>
90TH		.021	.8		.005	.014	.065	.040	90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

SUBM ID	33003L ARSENIC TOTAL AS	47003L SILVER TOTAL AG	48004L CADMIUM TOTAL CD	80002L MERCURY TOTAL HG	82005L LEAD TOTAL PB	08201L OXYGEN BIOCHEM. DEMAND-BOO O2	06531L PHENOLIC MATERIAL PHENOL	06551L TANNIN AND LIGNIN T&L	ECHANTILLONS(IND.)
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	1(0)	2(2)	14(8)	15(11)	14(4)	28(2)	29(3)	29(0)	
LOW	.006	L.001	L.001	.0001	L.001	.2	L.001	.2	MINIMUM
HIGH	.006	L.001	.020	.0013	.080	3.3	.015	1.6	MAXIMUM
AVERAGE			.003*	.00039*	.017*	1.3*	.005*	.92	MOYENNE
STD.DEV.			.005*	.00032*	.026*	.7*	.003*	.35	ECART-TYPE
PERCNT:10TH			L.001	.0001	L.001	.4	L.001	.5	10 <sup>e</sup> PERCNT
25TH			L.001	.0001	L.001	.8	.002	.6	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	.0005	.008	1.2	.004	.9	50 <sup>e</sup> MEDIANE
75TH			.002	.0005	.017	1.7	.006	1.1	75 <sup>e</sup>
90TH			.010	.0006	.068	2.3	.009	1.4	90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L	32L		CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07AG0002** LAT. **54 D 8 M 18 S** LONG. **115 D 41 M 51 S**UTM **11 585100E 5999500 N**  
JUN 23, 1965 TO/A MAR 04, 1976

## MCLEOD RIVER AT WHITECOURT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	18(0)	11(5)	14(0)		26(0)	32(0)	32(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>290.</b>	<b>Q161.</b>	<b>128.</b>		<b>1.</b>	<b>7.4</b>	<b>129.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>650.</b>	<b>273.</b>	<b>400.</b>		<b>37.</b>	<b>8.5</b>	<b>350.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>416.</b>	<b>213.*</b>	<b>217.0</b>		<b>6.3</b>		<b>219.8</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>98.</b>	<b>42.*</b>	<b>68.0</b>		<b>8.4</b>		<b>57.3</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>300.</b>	<b>163.</b>	<b>128.</b>		<b>1.</b>	<b>7.5</b>	<b>143.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>345.</b>	<b>Q163.</b>	<b>185.</b>		<b>2.</b>	<b>7.7</b>	<b>168.5</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>390.</b>	<b>216.</b>	<b>211.0</b>		<b>3.0</b>	<b>8.0</b>	<b>225.5</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>460.</b>	<b>251.</b>	<b>249.</b>		<b>7.</b>	<b>8.2</b>	<b>269.0</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>590.</b>	<b>Q253.</b>	<b>281.</b>		<b>14.</b>	<b>8.4</b>	<b>281.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	10(0)	20(0)	11(0)	18(0)	13(0)	13(0)	31(8)	20(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.8</b>	<b>8.</b>	<b>35.</b>	<b>7.</b>	<b>0.</b>	<b>147.</b>	<b>0.</b>	<b>L10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.6</b>	<b>33.</b>	<b>63.</b>	<b>26.</b>	<b>24.</b>	<b>427.</b>	<b>14.</b>	<b>54.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.2</b>	<b>15.3</b>	<b>46.18</b>	<b>14.6</b>	<b>5.</b>	<b>248.</b>	<b>3.2*</b>	<b>23.2*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.3</b>	<b>6.3</b>	<b>8.61</b>	<b>5.0</b>	<b>8.</b>	<b>87.</b>	<b>3.9*</b>	<b>12.3*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.8</b>	<b>9.0</b>	<b>38.</b>	<b>7.</b>	<b>0.</b>	<b>157.</b>	<b>L1.</b>	<b>11.5</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.0</b>	<b>10.4</b>	<b>40.</b>	<b>11.</b>	<b>0.</b>	<b>174.</b>	<b>L1.</b>	<b>13.5</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.2</b>	<b>13.5</b>	<b>42.</b>	<b>14.5</b>	<b>0.</b>	<b>219.</b>	<b>1.</b>	<b>20.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.4</b>	<b>19.0</b>	<b>53.</b>	<b>17.</b>	<b>8.</b>	<b>327.</b>	<b>3.</b>	<b>27.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.6</b>	<b>23.5</b>	<b>56.</b>	<b>23.</b>	<b>19.</b>	<b>344.</b>	<b>10.</b>	<b>43.5</b>	<b>90<sup>e</sup></b>
SECONDARY CODE		02L	03L	03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHINTS.	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	10571L RESIDUE FIXED TOTAL	
SUBM ID	MG/L	LAS MG/L	MPN NO/DL	MPN NO/DL	BACT.DENS. NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	18(6)	5(1)	25(0)	25(0)	19(1)	4(1)	23(0)	11(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0.</b>	<b>.04</b>	<b>0.</b>	<b>0.</b>	<b>30.</b>	<b>L10.</b>	<b>182.</b>	<b>121.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.</b>	<b>.50</b>	<b>21.</b>	<b>350.</b>	<b>11000.</b>	<b>36.</b>	<b>1804.</b>	<b>1286.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.*</b>	<b>.17*</b>	<b>1.</b>	<b>20.</b>	<b>1833.*</b>	<b>23.*</b>	<b>346.</b>	<b>298.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>0.*</b>	<b>.19*</b>	<b>4.</b>	<b>70.</b>	<b>2989.*</b>	<b>12.*</b>	<b>324.</b>	<b>332.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>0.</b>		<b>0.</b>	<b>0.</b>	<b>50.</b>		<b>201.</b>	<b>127.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.</b>	<b>L.05</b>	<b>0.</b>	<b>0.</b>	<b>310.</b>	<b>13.*</b>	<b>233.</b>	<b>130.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L1.</b>	<b>.09</b>	<b>0.</b>	<b>0.</b>	<b>710.</b>	<b>24.</b>	<b>276.</b>	<b>222.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.</b>	<b>.15</b>	<b>0.</b>	<b>8.</b>	<b>1600.</b>	<b>34.</b>	<b>324.</b>	<b>258.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.</b>		<b>2.</b>	<b>33.</b>	<b>9000.</b>		<b>380.</b>	<b>272.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07AG0002 LAT. 54 D 8 M 18 S LONG. 115 D 41 M 51 S

UTM 11 585100E 5999500N  
JUN 23 1965 TO A MAR 04 1976

## MCLEOD RIVER AT WHITECOURT

	07107L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15419L PHOSPHORUS TOTAL PHOSPHATE	15406L PHOSPHORUS TOTAL PHOSPHATE	08101L OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED F	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	O2 MG/L	F MG/L	
SAMPLES(FLAGS)	23(11)	10(9)	24(13)	1(1)	17(4)	17(4)	31(0)	26(1)	ECHANTILLONS(IND.)
LOW	.0	L.05	L.1	Q.354	.0	.0	5.7	L.05	MINIMUM
HIGH	1.0	.2	1.2	Q.354	1.4	1.4	14.7	.39	MAXIMUM
AVERAGE	.183*	.105*	.237*		.306*	.306*	10.1	.16*	MOYENNE
STD.DEV.	.210*	.037*	.218*		.399*	.399*	2.3	.09*	ECART-TYPE
PERCENT:10TH	L.1	L.075	.1		L.1	L.1	7.8	.05	10 <sup>e</sup> PERCNT
25TH	L.1	L.1	.150*		L.1	L.1	8.1	.08	25 <sup>e</sup>
MEDIAN 50TH	L.1	L.100	L.200		.1	.1	9.5	.16	50 <sup>e</sup> MEDIANE
75TH	.2	L.1	.200		.3	.3	12.5	.20	75 <sup>e</sup>
90TH	.4	.150*	.3		1.1	1.1	13.0	.28	90 <sup>e</sup>
SECONDARY CODE	06L	06L	55L		06L			07L	CODÉ DE SECOURS

	24003L CHROMIUM TOTAL CR	25006L MANGANESE TOTAL MN	26002L IRON TOTAL FE	26302L IRON EXTRBL. FE	27004L COBALT TOTAL CO	28004L NICKEL TOTAL NI	29008L COPPER TOTAL CU	30006L ZINC TOTAL ZN	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	7(3)	13(0)	11(4)	7(2)	13(7)	13(3)	13(2)	10(1)	ECHANTILLONS(IND.)
LOW	L.001	.000	L.1	L.1	L.001	L.001	L.001	.008	MINIMUM
HIGH	.009	.025	.9	.3	.010	.360	.035	.035	MAXIMUM
AVERAGE	.004*	.007	.200*	.171*	.003*	.032*	.007*	.020*	MOYENNE
STD.DEV.	.003*	.009	.237*	.095*	.003*	.099*	.009*	.009*	ECART-TYPE
PERCENT:10TH		.000	L.1		L.001	L.001	L.001	.009*	10 <sup>e</sup> PERCNT
25TH	L.001	.000	L.1	L.1	L.001	.002	.003	.011	25 <sup>e</sup>
MEDIAN 50TH	.002	.004	.1	.1	L.001	.004	.004	.020	50 <sup>e</sup> MEDIANE
75TH	.006	.014	.2	.3	.004	.009	.009	.03	75 <sup>e</sup>
90TH		.020	.2		.008	.014	.013	.033	90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODÉ DE SECOURS

	33003L ARSENIC TOTAL AS	47003L SILVER TOTAL AG	48004L CADMIUM TOTAL CD	80002L MERCURY TOTAL HG	82005L LEAD TOTAL PB	08201L OXYGEN BIOCHEM. DEMAND-BOD O2	06531L PHENOLIC MATERIAL PHENOL	06551L TANNIN AND LIGNIN T&L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	1(0)	2(1)	14(11)	14(10)	13(2)	31(5)	27(5)	14(1)	ECHANTILLONS(IND.)
LOW	.009	L.001	L.001	.0001	L.001	.1	.000	L.1	MINIMUM
HIGH	.009	.004	.044	.0030	.050	G16.4	.011	1.4	MAXIMUM
AVERAGE		.002*	.004*	.00046*	.012*	1.5*	.003*	.63*	MOYENNE
STD.DEV.		.002*	.011*	.00075*	.013*	2.8*	.002*	.35*	ECART-TYPE
PERCENT:10TH			L.001	.0001	L.001	.5	L.001	.2	10 <sup>e</sup> PERCNT
25TH			L.001	.0001	.006	.5	.001	.4	25 <sup>e</sup>
MEDIAN 50TH		.002*	L.001	.00020	.010	L.1.0	.002	.60	50 <sup>e</sup> MEDIANE
75TH			L.001	.0005	.011	1.3	.004	.8	75 <sup>e</sup>
90TH			.001	.0005	.022	1.8	.005	1.1	90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L	32L		CODÉ DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0001** LAT. **54 D 55M 16 S** LONG. **113 D 31M 46 S**

UTM **12 337900E 6088700 N**  
MAR 30, 1976 TO/A NOV 07, 1978

SOUTH BASIN, SOUTH EAST INLET  
- BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	68(0)		68(0)			68(0)	68(0)		ECHANTILLONS(IND.)
LOW	117.		73.			6.3	12.		MINIMUM
HIGH	523.		230.			9.5	199.		MAXIMUM
AVERAGE	303.		139.9				111.7		MOYENNE
STD.DEV.	86.		35.5				30.9		ECART-TYPE
PERCNT:10TH	215.		100.			7.3	80.		10 <sup>e</sup> PERCNT
25TH	230.		112.5			7.4	91.5		25 <sup>e</sup>
MEDIAN 50TH	276.		131.0			7.7	104.5		50 <sup>e</sup> MEDIANE
75TH	364.		161.0			8.2	132.5		75 <sup>e</sup>
90TH	403.		190.			8.9	156.		90 <sup>e</sup>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20105L CALCIUM DISSOLVED (CALCD.) CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	68(0)	68(0)	67(0)	68(0)	68(0)	68(0)	67(23)	68(3)	ECHANTILLONS(IND.)
LOW	3.4	3.	17.7	6.	0.	15.	L1.	L10.	MINIMUM
HIGH	29.2	35.	68.9	20.	39.	243.	12.	121.	MAXIMUM
AVERAGE	9.7	7.5	36.0	12.2	3.	130.	3.4*	38.2*	MOYENNE
STD.DEV.	5.4	4.5	11.8	2.2	7.	38.	2.8*	20.2*	ECART-TYPE
PERCNT:10TH	5.1	5.	22.2	10.	0.	90.	L1.	23.	10 <sup>e</sup> PERCNT
25TH	6.0	5.0	27.5	11.0	0.	106.	L1.	26.0	25 <sup>e</sup>
MEDIAN 50TH	7.2	6.0	32.8	12.0	0.	123.	2.	32.5	50 <sup>e</sup> MEDIANE
75TH	13.2	8.5	45.4	13.0	0.	158.	6.	44.5	75 <sup>e</sup>
90TH	17.1	11.	51.3	14.	9.	176.	8.	63.	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL (CALCD.) N MG/L	15407L PHOSPHATE TOTAL P04 MG/L	15256L PHOSPHORUS DISSOLVED ORTHO P04 P MG/L	15419L PHOSPHORUS TOTAL P MG/L	
SAMPLES(FLAGS)	70(1)	70(11)	38(7)	70(14)	69(11)	3(0)	71(1)	30(0)	ECHANTILLONS(IND.)
LOW	L.05	L.001	.002	L.05	Q.19	.3	L.002	.06	MINIMUM
HIGH	43.4	5.2	.125	1.33	43.68	86.3	1.300	1.81	MAXIMUM
AVERAGE	3.283*	.489*	.040*	.193*	3.78*	29.07	.161*	.345	MOYENNE
STD.DEV.	4.969*	1.112*	.044*	.269*	5.18*	49.57	.255*	.387	ECART-TYPE
PERCNT:10TH	1.545	.004	.004	L.050	1.54		.021	.100	10 <sup>e</sup> PERCNT
25TH	2.23	.022	.005	.07	Q2.25		.033	.14	25 <sup>e</sup>
MEDIAN 50TH	2.600	.056	.009	.095	2.76	.6	.070	.210	50 <sup>e</sup> MEDIANE
75TH	3.36	.209	L.1	.17	3.55		.163	.42	75 <sup>e</sup>
90TH	3.765	1.960	L.1	.410	5.40		.377	.630	90 <sup>e</sup>
SECONDARY CODE	15L	11L	06L	61L 55L					CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0001 LAT. 54 D 55 M 16 S LONG. 113 D 31 M 46 S

UTM 12 337900E 6088700 N  
MAR 30 1976 TO/A NOV 07 1978SOUTH BASIN SOUTH EAST INLET  
BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBL.	25301L MANGANESE EXTRBL.	26302L IRON EXTRBL.	
SUBM ID	SiO <sub>2</sub> MG/L	C MG/L	C MG/L	O <sub>2</sub> MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	60(2)	69(0)	70(0)	54(0)	68(1)	17(17)	26(2)	68(0)	ECHANTILLONS(IND.)
LOW	L.5	19.	6.	39.	L.05	L.002	L.008	.07	MINIMUM
HIGH	12.8	52.	61.	134.	.23	L.002	.092	.73	MAXIMUM
AVERAGE	5.26*	33.6	24.6	82.	.10*		.021*	.237	MOYENNE
STD.DEV.	3.62*	6.4	10.5	19.	.04*		.018*	.116	ECART-TYPE
PERCNT:10TH	1.15	26.	13.0	62.	.06	L.002	.010	.11	10 <sup>e</sup> PERCNT
25TH	2.00	30.	18.	71.	.07	L.002	.010	.165	25 <sup>e</sup>
MEDIAN 50TH	4.20	33.	23.5	81.	.09	L.002	.015	.200	50 <sup>e</sup> MEDIANE
75TH	8.70	37.	29.	89.	.11	L.002	.025	.295	75 <sup>e</sup>
90TH	10.55	43.	34.5	106.	.16	L.002	.046	.39	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBL.	29302L COPPER EXTRBL.	30305L ZINC EXTRBL.	42301L MOLYBDENUM EXTRBL.	
SUBM ID	CO MG/L	CU MG/L	ZN MG/L	MO MG/L	
SAMPLES(FLAGS)	18(16)	26(12)	27(5)	17(17)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	.002	.007	.079	L.001	MAXIMUM
AVERAGE	.001*	.002*	.010*		MOYENNE
STD.DEV.	.000*	.002*	.015*		ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	.003	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	.002	.005	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.003	.012	L.001	75 <sup>e</sup>
90TH	.002	.005	.018	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0002** LAT. **54 D 43M 48 S** LONG. **113 D 32M 6 S**

UTM **12 336750E 6067500 N**  
APR 06, 1976 TO/À OCT 02, 1978

CULVERT CREEK TRIBUTARY TO  
BAPTISTE LAKE - BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>20(0)</b>		<b>20(0)</b>			<b>20(0)</b>	<b>20(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>180.</b>		<b>65.</b>			<b>7.0</b>	<b>53.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>783.</b>		<b>391.</b>			<b>8.8</b>	<b>365.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>451.</b>		<b>203.4</b>				<b>170.6</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>156.</b>		<b>87.5</b>				<b>81.1</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>267.</b>		<b>99.5</b>			<b>7.3</b>	<b>79.5</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>344.</b>		<b>135.5</b>			<b>7.5</b>	<b>116.0</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>445.</b>		<b>186.5</b>			<b>7.8</b>	<b>154.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>509.</b>		<b>259.0</b>			<b>8.0</b>	<b>227.5</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>705.</b>		<b>325.0</b>			<b>8.6</b>	<b>284.5</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20105L CALCIUM DISSOLVED (CALCD.)	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>20(0)</b>	<b>20(0)</b>	<b>20(0)</b>	<b>20(0)</b>	<b>20(0)</b>	<b>20(0)</b>	<b>20(1)</b>	<b>20(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>4.2</b>	<b>3.</b>	<b>19.4</b>	<b>4.</b>	<b>0.</b>	<b>65.</b>	<b>L1.</b>	<b>19.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>32.1</b>	<b>35.</b>	<b>115.2</b>	<b>25.</b>	<b>45.</b>	<b>354.</b>	<b>9.</b>	<b>119.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>12.9</b>	<b>14.2</b>	<b>60.4</b>	<b>12.8</b>	<b>5.</b>	<b>199.</b>	<b>3.8*</b>	<b>56.4</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>6.7</b>	<b>8.4</b>	<b>26.2</b>	<b>5.4</b>	<b>11.</b>	<b>85.</b>	<b>2.0*</b>	<b>26.5</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>5.2</b>	<b>6.0</b>	<b>28.3</b>	<b>7.0</b>	<b>0.</b>	<b>97.</b>	<b>2.0</b>	<b>26.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>8.5</b>	<b>8.5</b>	<b>39.4</b>	<b>9.0</b>	<b>0.</b>	<b>139.</b>	<b>2.0</b>	<b>38.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>12.1</b>	<b>13.0</b>	<b>55.0</b>	<b>12.0</b>	<b>0.</b>	<b>177.</b>	<b>3.0</b>	<b>51.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>15.2</b>	<b>17.0</b>	<b>78.7</b>	<b>15.5</b>	<b>3.</b>	<b>275.</b>	<b>5.0</b>	<b>73.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>21.5</b>	<b>27.5</b>	<b>95.4</b>	<b>21.0</b>	<b>16.</b>	<b>329.</b>	<b>6.5</b>	<b>94.0</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL (CALCD.)	15407L PHOSPHATE TOTAL	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15419L PHOSPHORUS TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	P MG/L	
<b>SAMPLES(FLAGS)</b>	<b>20(0)</b>	<b>20(1)</b>	<b>16(3)</b>	<b>20(6)</b>	<b>20(1)</b>	<b>2(0)</b>	<b>20(0)</b>	<b>13(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.8</b>	<b>L.002</b>	<b>.003</b>	<b>L.05</b>	<b>1.88</b>	<b>1.5</b>	<b>.055</b>	<b>.21</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>4.38</b>	<b>4.6</b>	<b>L.1</b>	<b>.54</b>	<b>8.61</b>	<b>7.1</b>	<b>2.620</b>	<b>2.20</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>3.196</b>	<b>.627*</b>	<b>.026*</b>	<b>.147*</b>	<b>3.82*</b>	<b>4.30</b>	<b>.716</b>	<b>.789</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.707</b>	<b>1.041*</b>	<b>.037*</b>	<b>.140*</b>	<b>1.50*</b>	<b>3.96</b>	<b>.689</b>	<b>.617</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>2.425</b>	<b>.004</b>	<b>.004</b>	<b>L.050</b>	<b>2.55</b>		<b>.164</b>	<b>.22</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.690</b>	<b>.023</b>	<b>.005</b>	<b>.055*</b>	<b>2.88</b>		<b>.251</b>	<b>.28</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>3.020</b>	<b>.247</b>	<b>.009</b>	<b>.090</b>	<b>3.35</b>	<b>4.30</b>	<b>.404</b>	<b>.52</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>3.805</b>	<b>.832</b>	<b>.018</b>	<b>.185*</b>	<b>4.94</b>		<b>.863</b>	<b>1.15</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>4.170</b>	<b>1.350</b>	<b>L.1</b>	<b>.360</b>	<b>5.19</b>		<b>1.870</b>	<b>1.63</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	15L	11L	06L	55L 61L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0002 LAT. 54 D 43 M 48 S LONG. 113 D 32 M 6 S

UTM 12 336750 E 6067500 N  
APR 06 1976 TO: A OCT 02 1978CULVERT CREEK TRIBUTARY TO  
BAPTISTE LAKE - BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBL.	25301L MANGANESE EXTRBL.	26302L IRON EXTRBL.	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	18(0)	20(0)	20(0)	18(0)	20(5)	10(10)	11(7)	20(5)	ECHANTILLONS(IND.)
LOW	3.9	14.	4.	17.	L.05	L.002	L.008	L.05	MINIMUM
HIGH	14.6	147.	80.	134.	.20	L.002	.020	.53	MAXIMUM
AVERAGE	10.50	46.8	37.9	95.	.09*		.010*	.112*	MOYENNE
STD.DEV.	2.61	32.5	21.2	30.	.04*		.004*	.113*	ECART-TYPE
PERCNT:10TH	5.5	30.5	12.0	40.	L.05	L.0020	L.008	L.050	10 <sup>e</sup> PERCNT
25TH	10.2	32.5	24.5	85.	.06*	L.002	L.008	.055	25 <sup>e</sup>
MEDIAN 50TH	11.00	37.0	36.0	94.	.08	L.0020	L.008	.075	50 <sup>e</sup> MEDIANE
75TH	11.6	45.0	49.5	114.	.11	L.002	.010	.100*	75 <sup>e</sup>
90TH	13.5	91.0	73.0	134.	.15	L.0020	.015	.220	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBL.	29302L COPPER EXTRBL.	30305L ZINC EXTRBL.	42301L MOLYBDENUM EXTRBL.	
SUBM ID	CO MG/L	CU MG/L	ZN MG/L	MO MG/L	
SAMPLES(FLAGS)	10(10)	12(2)	12(2)	10(10)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	L.001	.005	.028	L.001	MAXIMUM
AVERAGE		.003*	.012*		MOYENNE
STD.DEV.		.001*	.008*		ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	.002	.007	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	.003	.010	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.004	.017	L.001	75 <sup>e</sup>
90TH	L.001	.005	.024	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0003** LAT. **54 D 43M 25 S** LONG. **113 D 33M 3 S**

UTM **12 335700E 6066800 N**  
APR 06, 1976 TO/À OCT 11, 1978

OUTHOUSE CREEK TRIBUTARY TO  
BAPTISTE LAKE - BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	46(0)		46(0)			46(0)	46(0)		ECHANTILLONS(IND.)
LOW	295.		98.			7.3	107.		MINIMUM
HIGH	1000.		460.			9.3	383.		MAXIMUM
AVERAGE	656.		282.6				248.5		MOYENNE
STD.DEV.	194.		102.4				79.4		ECART-TYPE
PERCNT:10TH	337.		134.			7.7	130.		10 <sup>e</sup> PERCNT
25TH	486.		190.			7.9	182.		25 <sup>e</sup>
MEDIAN 50TH	685.		287.0			8.0	253.5		50 <sup>e</sup> MEDIANE
75TH	790.		372.			8.4	307.		75 <sup>e</sup>
90TH	880.		423.			8.8	359.		90 <sup>e</sup>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20105L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	46(0)	46(0)	46(0)	46(0)	46(0)	46(0)	46(5)	46(0)	ECHANTILLONS(IND.)
LOW	1.8	17.	24.4	7.	0.	106.	L1.	27.	MINIMUM
HIGH	36.2	68.	139.5	28.	51.	447.	16.	239.	MAXIMUM
AVERAGE	7.3	44.8	82.2	18.7	4.	294.	3.2*	110.3	MOYENNE
STD.DEV.	6.2	15.3	32.4	5.8	11.	95.	2.3*	60.6	ECART-TYPE
PERCNT:10TH	3.1	20.	37.1	10.	0.	148.	L1.	38.	10 <sup>e</sup> PERCNT
25TH	3.4	31.	52.6	14.	0.	208.	2.	69.	25 <sup>e</sup>
MEDIAN 50TH	5.5	50.0	83.9	19.5	0.	307.	3.0	102.0	50 <sup>e</sup> MEDIANE
75TH	8.6	57.	105.9	24.	0.	368.	3.	152.	75 <sup>e</sup>
90TH	13.2	62.	123.0	26.	14.	425.	5.	204.	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL (CALCD.) N MG/L	15407L PHOSPHATE TOTAL P04 MG/L	15256L PHOSPHORUS DISSOLVED ORTHO P04 P MG/L	15419L PHOSPHORUS TOTAL P MG/L	
SUBM ID									
SAMPLES(FLAGS)	47(0)	46(2)	32(7)	47(8)	46(2)	3(0)	47(0)	26(0)	ECHANTILLONS(IND.)
LOW	.69	.002	.005	L.05	.72	.2	.004	.07	MINIMUM
HIGH	7.01	1.191	.166	.3	7.59	2.5	1.216	1.41	MAXIMUM
AVERAGE	2.879	.237*	.032*	.119*	3.13*	1.00	.132	.298	MOYENNE
STD.DEV.	1.232	.261*	.044*	.073*	1.33*	1.30	.206	.320	ECART-TYPE
PERCNT:10TH	1.7	.017	.005	L.05	1.86		.015	.10	10 <sup>e</sup> PERCNT
25TH	2.2	.041	.006	.06	2.47		.024	.13	25 <sup>e</sup>
MEDIAN 50TH	2.68	.135	.009	.10	2.78	.3	.065	.170	50 <sup>e</sup> MEDIANE
75TH	3.23	.355	.036*	.15	3.68		.117	.28	75 <sup>e</sup>
90TH	4.20	.5	L.1	.26	5.22		.341	.73	90 <sup>e</sup>
SECONDARY CODE	15L	11L 10L	06L	61L 55L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0003 LAT 54 D 43M 25 S LONG. 113 D 33M 3 S

UTM 12 335700E 6066800N

APR 06 1976 TO/A OCT 11 1978

OUTHOUSE CREEK TRIBUTARY TO  
BAPTISTE LAKE - BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBLE.	25301L MANGANESE EXTRBLE	26302L IRON EXTRBLE.	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	42(0)	47(0)	47(0)	39(0)	46(4)	16(16)	22(0)	46(2)	ECHANTILLONS(IND.)
LOW	4.2	11.	9.	25.	L.05	L.002	.014	L.05	MINIMUM
HIGH	17.0	148.	108.	198.	.21	L.002	.500	1.38	MAXIMUM
AVERAGE	11.76	45.5	55.6	98.	.11*		.129	.478*	MOYENNE
STD.DEV.	2.77	27.5	22.8	33.	.04*		.128	.312*	ECART-TYPE
PERCNT:10TH	9.5	25.	25.	61.	.05	L.002	.020	.16	10 <sup>e</sup> PERCNT
25TH	10.2	29.	38.	79.	.08	L.0020	.044	.25	25 <sup>e</sup>
MEDIAN 50TH	11.80	39.	56.	91.	.11	L.0020	.092	.400	50 <sup>e</sup> MEDIANE
75TH	13.3	53.	74.	123.	.13	L.0020	.142	.66	75 <sup>e</sup>
90TH	15.8	76.	81.	142.	.17	L.002	.310	.9	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBLE.	29302L COPPER EXTRBLE	30305L ZINC EXTRBLE.	42301L MOLYBDENUM EXTRBLE	
SUBM ID	CO MG/L	CU MG/L	ZN MG/L	MO MG/L	
SAMPLES(FLAGS)	16(15)	23(10)	23(4)	16(16)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	.003	.004	.056	L.001	MAXIMUM
AVERAGE	.001*	.002*	.009*		MOYENNE
STD.DEV.	.001*	.001*	.012*		ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	.002	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	.002	.006	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.002	.013	L.001	75 <sup>e</sup>
90TH	L.001	.002	.017	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION	00AT07BE0004		LAT.	54 D 43M 20 S	LONG.	113 D 33M 14 S	UTM	12 335550 E	6066650 N	APR 14, 1976	TO/A	NOV 07, 1978
	SUBM ID	02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS			
SAMPLES(FLAGS)		74(0)		74(0)			74(0)	74(0)		ECHANTILLONS(IND.)		
LOW		58.		67.			7.2	79.		MINIMUM		
HIGH		640.		289.			9.2	321.		MAXIMUM		
AVERAGE		389.		187.9				201.4		MOYENNE		
STD.DEV.		114.		60.7				64.0		ECART-TYPE		
PERCNT:10TH		233.		98.			7.6	101.		10 <sup>e</sup> PERCNT		
25TH		300.		139.			7.8	151.		25 <sup>e</sup>		
MEDIAN 50TH		403.		207.0			8.1	216.5		50 <sup>e</sup> MEDIANE		
75TH		480.		233.			8.6	253.		75 <sup>e</sup>		
90TH		530.		257.			9.0	282.		90 <sup>e</sup>		
SECONDARY CODE				04L						CODE DE SECOURS		

	SUBM ID	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20105L CALCIUM DISSOLVED (CALCD.) CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L			
SAMPLES(FLAGS)		74(0)	74(1)	74(0)	74(0)	74(0)	74(0)	74(14)	74(24)	ECHANTILLONS(IND.)		
LOW		.7	L1.	11.4	6.	0.	86.	L1.	L10.	MINIMUM		
HIGH		38.3	57.	82.0	23.	38.	381.	7.	127.	MAXIMUM		
AVERAGE		5.7	19.8*	50.2	15.1	5.	235.	2.2*	21.8*	MOYENNE		
STD.DEV.		6.4	9.7*	17.5	4.7	8.	77.	1.1*	16.5*	ECART-TYPE		
PERCNT:10TH		2.4	8.	26.0	8.	0.	123.	L1.	L10.	10 <sup>e</sup> PERCNT		
25TH		2.7	12.	36.6	11.	0.	168.	2.	L10.	25 <sup>e</sup>		
MEDIAN 50TH		3.0	20.0	54.4	17.0	0.	251.	2.0	19.0	50 <sup>e</sup> MEDIANE		
75TH		5.8	28.	63.0	19.	8.	299.	3.	26.	75 <sup>e</sup>		
90TH		12.5	30.	68.7	20.	15.	321.	3.	33.	90 <sup>e</sup>		
SECONDARY CODE		03L 02L	03L 02L					03L	06L	CODE DE SECOURS		

	SUBM ID	07003L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL (CALCD.) N MG/L	15407L PHOSPHATE TOTAL P04 MG/L	15256L PHOSPHORUS DISSOLVED ORTHO P04 P MG/L	15419L PHOSPHORUS TOTAL P MG/L			
SAMPLES(FLAGS)		74(0)	74(7)	41(11)	74(22)	74(7)	3(0)	73(0)	31(0)	ECHANTILLONS(IND.)		
LOW		.54	L.002	L.001	L.05	.61	.19	.009	.06	MINIMUM		
HIGH		5.66	.410	L.1	.47	5.69	.3	1.180	1.98	MAXIMUM		
AVERAGE		1.919	.096*	.030*	.110*	2.01*	.23	.130	.333	MOYENNE		
STD.DEV.		.818	.083*	.041*	.078*	.84*	.06	.224	.423	ECART-TYPE		
PERCNT:10TH		.85	.015	.004	L.05	1.02		.018	.09	10 <sup>e</sup> PERCNT		
25TH		1.4	.029	.005	L.05	1.43		.036	.12	25 <sup>e</sup>		
MEDIAN 50TH		1.975	.086	.008	.085	2.05	.2	.052	.17	50 <sup>e</sup> MEDIANE		
75TH		2.32	.128	.021	.14	2.42		.097	.28	75 <sup>e</sup>		
90TH		2.69	.198	L.1	L.2	2.79		.259	.79	90 <sup>e</sup>		
SECONDARY CODE		15L	11L	06L	55L 61L					CODE DE SECOURS		

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07BE0004 LAT. 54 D 43M 20 S LONG. 113 D 33M 14 S

UTM 12 335550E 6066650 N  
APR 14 1976 TO A NOV 07 1978

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06001L CARBON TOTAL INORGANIC	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBL.	25301L MANGANESE EXTRBL.	26302L IRON EXTRBL.	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	67(0)	72(0)	72(0)	57(0)	74(9)	18(18)	26(1)	74(0)	ECHANTILLONS(IND.)
LOW	5.4	9.	14.	8.	L.05	L.002	L.008	.11	MINIMUM
HIGH	15.0	81.	75.	177.	.25	L.002	.200	1.82	MAXIMUM
AVERAGE	10.98	29.6	44.5	.71.	.11*		.050*	.401	MOYENNE
STD.DEV.	2.23	11.0	15.8	28.	.05*		.042*	.249	ECART-TYPE
PERCNT:10TH	8.1	18.	24.	37.	L.05	L.002	.010	.15	10 <sup>e</sup> PERCNT
25TH	9.8	24.0	32.0	58.	.08	L.002	.026	.26	25 <sup>e</sup>
MEDIAN 50TH	10.9	28.5	47.0	70.	.11	L.0020	.040	.350	50 <sup>e</sup> MEDIANE
75TH	12.5	33.0	57.0	80.	.14	L.002	.070	.48	75 <sup>e</sup>
90TH	14.2	41.	64.	104.	.16	L.002	.090	.61	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODF DE SECOURS

	27302L COBALT EXTRBL.	29302L COPPER EXTRBL.	30305L ZINC EXTRBL.	42301L MOLYBDENUM EXTRBL.	
SUBM ID	CO MG/L	CU MG/L	ZN MG/L	MO MG/L	
SAMPLES(FLAGS)	19(18)	27(11)	28(8)	18(18)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	.002	.004	.022	L.001	MAXIMUM
AVERAGE	.001*	.002*	.006*		MOYENNE
STD.DEV.	.000*	.001*	.006*		ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	L.001	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	.002	.003	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.002	.008	L.001	75 <sup>e</sup>
90TH	L.001	.003	.012	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODF DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0005** LAT. **54 D 43 M 23 S** LONG. **113 D 34 M 3 S**UTM **12 334650E 6066800 N**  
APR 06, 1976 TO/A NOV 14, 1978TRIBUTARY TO BAPTISTE LAKE INTO  
SOUTH INLET 2 - BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>83(0)</b>		<b>83(0)</b>			<b>83(0)</b>	<b>83(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>157.</b>		<b>72.</b>			<b>7.1</b>	<b>75.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>674.</b>		<b>304.</b>			<b>9.2</b>	<b>337.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>334.</b>		<b>152.8</b>				<b>169.8</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>102.</b>		<b>47.1</b>				<b>55.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>217.</b>		<b>92.</b>			<b>7.6</b>	<b>112.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>255.</b>		<b>117.</b>			<b>7.8</b>	<b>129.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>320.</b>		<b>148.</b>			<b>8.1</b>	<b>162.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>411.</b>		<b>181.</b>			<b>8.3</b>	<b>208.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>450.</b>		<b>213.</b>			<b>8.5</b>	<b>251.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20105L CALCIUM DISSOLVED (CALCD.)	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>83(0)</b>	<b>83(0)</b>	<b>83(0)</b>	<b>83(0)</b>	<b>83(0)</b>	<b>83(0)</b>	<b>83(28)</b>	<b>83(48)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.3</b>	<b>4.</b>	<b>8.5</b>	<b>7.</b>	<b>0.</b>	<b>73.</b>	<b>L1.</b>	<b>L10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>68.3</b>	<b>47.</b>	<b>85.3</b>	<b>22.</b>	<b>30.</b>	<b>411.</b>	<b>8.</b>	<b>51.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>4.5</b>	<b>17.0</b>	<b>40.0</b>	<b>12.8</b>	<b>2.</b>	<b>204.</b>	<b>2.0*</b>	<b>14.9*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>7.5</b>	<b>9.2</b>	<b>14.3</b>	<b>3.7</b>	<b>4.</b>	<b>69.</b>	<b>1.1*</b>	<b>8.7*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.7</b>	<b>7.</b>	<b>22.2</b>	<b>9.</b>	<b>0.</b>	<b>133.</b>	<b>L1.</b>	<b>L10.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.1</b>	<b>9.</b>	<b>29.5</b>	<b>10.</b>	<b>0.</b>	<b>152.</b>	<b>L1.</b>	<b>L10.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.7</b>	<b>16.</b>	<b>38.6</b>	<b>12.</b>	<b>0.</b>	<b>194.</b>	<b>2.</b>	<b>L10.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>4.7</b>	<b>23.</b>	<b>50.5</b>	<b>15.</b>	<b>0.</b>	<b>254.</b>	<b>2.</b>	<b>17.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>8.2</b>	<b>28.</b>	<b>58.8</b>	<b>18.</b>	<b>5.</b>	<b>293.</b>	<b>3.</b>	<b>30.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L 03L	03L 02L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL (CALCD.)	15407L PHOSPHATE TOTAL	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15419L PHOSPHORUS TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P04 MG/L	P MG/L	P MG/L	
<b>SAMPLES(FLAGS)</b>	<b>82(0)</b>	<b>84(9)</b>	<b>46(14)</b>	<b>82(24)</b>	<b>82(7)</b>	<b>2(1)</b>	<b>82(2)</b>	<b>35(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.24</b>	<b>L.001</b>	<b>L.001</b>	<b>L.05</b>	<b>.27</b>	<b>L.05</b>	<b>L.001</b>	<b>.05</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.49</b>	<b>1.3</b>	<b>L.1</b>	<b>.44</b>	<b>3.34</b>	<b>1.4</b>	<b>.274</b>	<b>.35</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.416</b>	<b>.155*</b>	<b>.030*</b>	<b>.107*</b>	<b>1.57*</b>	<b>.72*</b>	<b>.052*</b>	<b>.159</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.518</b>	<b>.206*</b>	<b>.041*</b>	<b>.078*</b>	<b>.59*</b>	<b>.95*</b>	<b>.060*</b>	<b>.071</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.65</b>	<b>.027</b>	<b>.004</b>	<b>L.05</b>	<b>.76</b>		<b>.009</b>	<b>.07</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.04</b>	<b>.050</b>	<b>.005</b>	<b>L.05</b>	<b>1.22</b>		<b>.015</b>	<b>.11</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.480</b>	<b>L.100</b>	<b>.007</b>	<b>.070</b>	<b>1.59</b>	<b>.72*</b>	<b>.034</b>	<b>.15</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.71</b>	<b>.186</b>	<b>L.05</b>	<b>.13</b>	<b>Q1.90</b>		<b>.062</b>	<b>.18</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.04</b>	<b>.285</b>	<b>L.1</b>	<b>.21</b>	<b>2.30</b>		<b>.129</b>	<b>.25</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	15L	11L	06L	55L 61L					CODE DE SECOURS

MACKENZIE RIVER BASIN 1960.79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0005 LAT. 54 D 43M 23 S LONG. 113 D 34M 3 S

UTM 12 334650E 6066800N  
APR 06 1976 TO/A NOV 14 1978

TRIBUTARY TO BAPTISTE LAKE INTO  
SOUTH INLET 2 - BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBL.	25301L MANGANESE EXTRBL.	26302L IRON EXTRBL.	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	74(0)	81(0)	81(0)	66(0)	83(2)	18(18)	30(0)	83(0)	ECHANTILLONS(IND.)
LOW	6.3	5.	11.	8.	L.05	L.002	.085	.09	MINIMUM
HIGH	14.1	37.	79.	108.	.25	L.002	.430	3.94	MAXIMUM
AVERAGE	9.77	19.8	37.1	49.	.12*		.176	1.436	MOYENNE
STD.DEV.	1.81	7.5	13.1	17.	.05*		.075	.693	ECART-TYPE
PERCNT:10TH	7.4	10.	21.	28.	.07	L.002	.104	.54	10 <sup>e</sup> PERCNT
25TH	8.5	15.	28.	36.	.08	L.002	.120	1.01	25 <sup>e</sup>
MEDIAN 50TH	9.70	20.	36.	49.	.11	L.0020	.160	1.40	50 <sup>e</sup> MEDIANE
75TH	11.1	25.	45.	59.	.15	L.002	.214	1.86	75 <sup>e</sup>
90TH	12.4	30.	54.	69.	.17	L.002	.275	2.22	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBL.	29302L COPPER EXTRBL.	30305L ZINC EXTRBL.	42301L MOLYBDENUM EXTRBL.	
SUBM ID	CO MG/L	CU MG/L	ZN MG/L	MO MG/L	
SAMPLES(FLAGS)	20(17)	31(16)	32(8)	18(17)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	.002	.008	.136	.007	MAXIMUM
AVERAGE	.001*	.002*	.011*	.001*	MOYENNE
STD.DEV.	.000*	.001*	.024*	.001*	ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	.001*	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001	.005	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.002	.009	L.001	75 <sup>e</sup>
90TH	.002	.003	.023	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0006** LAT. **54 D 43M 31 S** LONG. **113 D 35M 42 S**UTM **12 332900E 6067100 N**  
APR 06, 1977 TO/A NOV 14, 1978NORTH WEST TRIBUTARY TO SOUTH INLET  
OF TRIBUTARY TO BAPTISTE LAKE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>47(0)</b>		<b>47(0)</b>			<b>47(0)</b>	<b>47(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	<b>35.</b>		<b>42.</b>			<b>7.1</b>	<b>48.</b>		<b>MINIMUM</b>
HIGH	<b>480.</b>		<b>221.</b>			<b>9.4</b>	<b>281.</b>		<b>MAXIMUM</b>
AVERAGE	<b>283.</b>		<b>134.2</b>				<b>150.0</b>		<b>MOYENNE</b>
STD.DEV.	<b>97.</b>		<b>44.8</b>				<b>52.7</b>		<b>ECART-TYPE</b>
PERCNT:10TH	165.		78.			7.6	84.		10 <sup>e</sup> PERCNT
25TH	224.		100.			7.7	110.		25 <sup>e</sup>
MEDIAN 50TH	<b>280.</b>		<b>129.</b>			<b>8.0</b>	<b>149.</b>		<b>50<sup>e</sup> MEDIANE</b>
75TH	345.		168.			8.4	197.		75 <sup>e</sup>
90TH	420.		198.			8.6	222.		90 <sup>e</sup>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20105L CALCIUM DISSOLVED (CALCD.) CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>47(0)</b>	<b>48(0)</b>	<b>47(0)</b>	<b>47(0)</b>	<b>47(0)</b>	<b>47(0)</b>	<b>47(26)</b>	<b>47(32)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	<b>.9</b>	<b>1.</b>	<b>8.6</b>	<b>2.</b>	<b>0.</b>	<b>54.</b>	<b>L1.</b>	<b>8.</b>	<b>MINIMUM</b>
HIGH	<b>5.9</b>	<b>46.5</b>	<b>60.0</b>	<b>19.</b>	<b>58.</b>	<b>343.</b>	<b>4.</b>	<b>30.</b>	<b>MAXIMUM</b>
AVERAGE	<b>2.6</b>	<b>14.3</b>	<b>35.2</b>	<b>11.2</b>	<b>3.</b>	<b>177.</b>	<b>1.5*</b>	<b>12.7*</b>	<b>MOYENNE</b>
STD.DEV.	1.2	8.0	13.5	3.4	9.	67.	.7*	5.8*	<b>ECART-TYPE</b>
PERCNT:10TH	1.4	5.	15.5	7.	0.	83.	L1.	L10.	10 <sup>e</sup> PERCNT
25TH	1.7	8.5	26.8	9.	0.	130.	L1.	L10.	25 <sup>e</sup>
MEDIAN 50TH	<b>2.2</b>	<b>13.5</b>	<b>35.1</b>	<b>11.</b>	<b>0.</b>	<b>180.</b>	<b>L1.</b>	<b>L10.</b>	<b>50<sup>e</sup> MEDIANE</b>
75TH	3.0	19.5	45.8	13.	0.	240.	2.	12.	75 <sup>e</sup>
90TH	4.6	24.	53.7	16.	6.	269.	2.	22.	90 <sup>e</sup>
SECONDARY CODE	03L	03L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL (CALCD.) N MG/L	15407L PHOSPHATE TOTAL P MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15419L PHOSPHORUS TOTAL P MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>47(0)</b>	<b>47(5)</b>	<b>23(5)</b>	<b>46(11)</b>	<b>47(5)</b>		<b>47(0)</b>	<b>16(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	<b>.48</b>	<b>.007</b>	<b>L.001</b>	<b>L.05</b>	<b>.54</b>		<b>.005</b>	<b>.07</b>	<b>MINIMUM</b>
HIGH	<b>2.01</b>	<b>.403</b>	<b>.3</b>	<b>.40</b>	<b>2.21</b>		<b>.099</b>	<b>.25</b>	<b>MAXIMUM</b>
AVERAGE	<b>1.259</b>	<b>.121*</b>	<b>.040*</b>	<b>.102*</b>	<b>1.38*</b>		<b>.032</b>	<b>.141</b>	<b>MOYENNE</b>
STD.DEV.	.410	.091*	.069*	.075*	.43*		.024	.055	<b>ECART-TYPE</b>
PERCNT:10TH	.67	.027	.004	L.05	.74		.008	.07	10 <sup>e</sup> PERCNT
25TH	.96	.050	.004	.06	1.06		.010	.105	25 <sup>e</sup>
MEDIAN 50TH	<b>1.29</b>	<b>L.1</b>	<b>.009</b>	<b>.075</b>	<b>1.40</b>		<b>.027</b>	<b>.125</b>	<b>50<sup>e</sup> MEDIANE</b>
75TH	1.61	.180	L.1	.11	1.68		.048	.170	75 <sup>e</sup>
90TH	1.70	.250	L.1	.19	1.91		.070	.22	90 <sup>e</sup>
SECONDARY CODE	15L	11L	06L	55L 61L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0006 LAT. 54 D 43M 31 S LONG. 113 D 35M 42 S

UTM 12 332900E 6067100N

APR 06 1977 TO 1A NOV 14 1978

NORTH WEST TRIBUTARY TO SOUTH INLET  
OF TRIBUTARY TO BAPTISTE LAKE

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBLE.	25301L MANGANESE EXTRBLE.	26302L IRON EXTRBLE.	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	47(0)	46(1)	46(0)	38(1)	48(2)	8(8)	14(0)	47(1)	ECHANTILLONS(IND.)
LOW	1.6	L2.	8.	L5.	L.05	L.002	.075	L.05	MINIMUM
HIGH	13.3	27.	61.	94.	1.30	L.002	.470	5.53	MAXIMUM
AVERAGE	9.43	17.0*	33.2	43.*	.13*		.254	1.833*	MOYENNE
STD.DEV.	2.41	6.3*	12.5	16.*	.18*		.121	1.115*	ECART-TYPE
PERCNT:10TH	6.6	7.	16.	21.	.07		.112	.46	10 <sup>e</sup> PERCNT
25TH	7.7	13.	25.	32.	.08	L.0020	.155	1.20	25 <sup>e</sup>
MEDIAN 50TH	9.3	17.5	32.0	43.	.10	L.0020	.245	1.73	50 <sup>e</sup> MEDIANE
75TH	11.6	22.	41.	55.	.14	L.0020	.360	2.27	75 <sup>e</sup>
90TH	12.7	25.	51.	60.	.17		.390	3.10	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBLE.	29302L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	
SUBM ID	CO MG/L	CU MG/L	ZN MG/L	MO MG/L	
SAMPLES(FLAGS)	9(9)	13(8)	14(2)	8(8)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	L.001	.007	.034	L.001	MAXIMUM
AVERAGE		.002*	.007*		MOYENNE
STD.DEV.		.002*	.009*		ECART-TYPE
PERCNT:10TH		L.001	L.001		10 <sup>e</sup> PERCNT
25TH	L.001	L.001	.002	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001	.006	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.002	.009	L.001	75 <sup>e</sup>
90TH		.003	.014		90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0007** LAT. **54 D 44 M 29 S** LONG. **113 D 33 M 46 S**

UTM **12 335000E 6068800 N**  
APR 06, 1976 TO/A NOV 21, 1978

TRIBUTARY TO BAPTISTE LAKE INTO  
SOUTH INLET 3 - BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>85(0)</b>		<b>84(0)</b>			<b>85(0)</b>	<b>85(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>88.</b>		<b>44.</b>			<b>6.6</b>	<b>38.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>380.</b>		<b>186.</b>			<b>9.5</b>	<b>173.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>176.</b>		<b>89.2</b>				<b>84.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>54.</b>		<b>27.8</b>				<b>27.7</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>107.</b>		<b>56.</b>			<b>7.2</b>	<b>51.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>137.</b>		<b>69.5</b>			<b>7.4</b>	<b>67.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>170.</b>		<b>86.0</b>			<b>7.7</b>	<b>82.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>205.</b>		<b>103.0</b>			<b>8.1</b>	<b>98.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>250.</b>		<b>128.</b>			<b>8.9</b>	<b>121.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20105L CALCIUM DISSOLVED (CALCD.)	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>85(0)</b>	<b>85(0)</b>	<b>84(0)</b>	<b>85(0)</b>	<b>84(0)</b>	<b>84(0)</b>	<b>85(41)</b>	<b>85(56)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.2</b>	<b>1.</b>	<b>10.1</b>	<b>3.</b>	<b>0.</b>	<b>30.</b>	<b>L1.</b>	<b>5.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>12.2</b>	<b>12.</b>	<b>48.0</b>	<b>16.</b>	<b>18.</b>	<b>211.</b>	<b>8.</b>	<b>26.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.9</b>	<b>4.5</b>	<b>22.7</b>	<b>7.9</b>	<b>1.</b>	<b>101.</b>	<b>1.8*</b>	<b>11.7*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>2.1</b>	<b>2.4</b>	<b>8.1</b>	<b>2.3</b>	<b>4.</b>	<b>34.</b>	<b>1.3*</b>	<b>3.8*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.4</b>	<b>2.</b>	<b>13.3</b>	<b>5.</b>	<b>0.</b>	<b>62.</b>	<b>L1.</b>	<b>L10.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.7</b>	<b>3.</b>	<b>17.4</b>	<b>6.</b>	<b>0.</b>	<b>79.</b>	<b>L1.</b>	<b>L10.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.1</b>	<b>4.</b>	<b>21.3</b>	<b>8.</b>	<b>0.</b>	<b>99.</b>	<b>2.</b>	<b>L10.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>3.1</b>	<b>6.</b>	<b>26.9</b>	<b>9.</b>	<b>0.</b>	<b>119.</b>	<b>2.</b>	<b>11.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>5.5</b>	<b>8.</b>	<b>33.4</b>	<b>11.</b>	<b>5.</b>	<b>138.</b>	<b>3.</b>	<b>17.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L 03L	02L 03L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL (CALCD.)	15407L PHOSPHATE TOTAL	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15419L PHOSPHORUS TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	P MG/L	
<b>SAMPLES(FLAGS)</b>	<b>85(0)</b>	<b>85(9)</b>	<b>44(10)</b>	<b>85(28)</b>	<b>85(9)</b>	<b>5(1)</b>	<b>85(0)</b>	<b>36(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.52</b>	<b>L.001</b>	<b>L.001</b>	<b>L.05</b>	<b>.62</b>	<b>L.05</b>	<b>.004</b>	<b>.07</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>21.23</b>	<b>1.900</b>	<b>L.1</b>	<b>.36</b>	<b>21.63</b>	<b>1.1</b>	<b>.589</b>	<b>.73</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.096</b>	<b>.098*</b>	<b>.023*</b>	<b>.104*</b>	<b>2.19*</b>	<b>.43*</b>	<b>.062</b>	<b>.178</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>2.187</b>	<b>.212*</b>	<b>.037*</b>	<b>.069*</b>	<b>2.23*</b>	<b>.39*</b>	<b>.083</b>	<b>.149</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.86</b>	<b>.010</b>	<b>.004</b>	<b>L.05</b>	<b>.99</b>		<b>.012</b>	<b>.08</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.42</b>	<b>.022</b>	<b>.005</b>	<b>L.05</b>	<b>1.52</b>	<b>.3</b>	<b>.020</b>	<b>.095</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.96</b>	<b>.058</b>	<b>.005</b>	<b>.07</b>	<b>2.06</b>	<b>.32</b>	<b>.038</b>	<b>.140</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.29</b>	<b>L.1</b>	<b>.009</b>	<b>.15</b>	<b>Q2.39</b>	<b>.4</b>	<b>.061</b>	<b>.170</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.56</b>	<b>.195</b>	<b>L.1</b>	<b>.20</b>	<b>2.74</b>		<b>.136</b>	<b>.29</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	15L	11L	06L	55L 61L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION **00AT07BE0007** LAT. **54 D 44 M 29 S** LONG. **113 D 33 M 46 S**

UTM **12 335000E 6068800 N**  
APR 06 1976 TO: A NOV 21 1978

TRIBUTARY TO BAPTISTE LAKE INTO  
SOUTH INLET 3 - BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	08301L OXYGEN TOTAL COD O2	09105L FLUORIDE DISSOLVED F	23302L VANADIUM EXTRBLE. V	25301L MANGANESE EXTRBLE. MN	26302L IRON EXTRBLE. FE	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	74(0)	84(0)	84(1)	67(0)	85(16)	18(18)	31(2)	85(0)	ECHANTILLONS(IND.)
LOW	2.3	9.	12.	14.	L.05	L.002	L.008	.12	MINIMUM
HIGH	86.5	71.	57.	127.	.25	L.002	.228	1.50	MAXIMUM
AVERAGE	6.33	28.9	18.3*	72.	.08*		.059*	.758	MOYENNE
STD.DEV.	9.60	8.2	8.3*	21.	.04*		.046*	.297	ECART-TYPE
PERCNT:10TH	3.0	20.	10.	41.	L.05	L.002	L.027	.31	10 <sup>e</sup> PERCNT
25TH	3.9	23.5	13.0	61.	.05	L.002	.035	.6	25 <sup>e</sup>
MEDIAN 50TH	5.00	29.0	17.0	69.	.07	L.0020	.044	.76	50 <sup>e</sup> MEDIANE
75TH	6.4	33.0	22.0	85.	.09	L.002	.068	.93	75 <sup>e</sup>
90TH	7.9	37.	28.	98.	.13	L.002	.090	1.18	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBLE. CO	29302L COPPER EXTRBLE. CU	30305L ZINC EXTRBLE. ZN	42301L MOLYBDENUM EXTRBLE. MO	
SUBM ID	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	19(18)	32(18)	33(5)	18(17)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	.002	.003	.125	.008	MAXIMUM
AVERAGE	.001*	.002*	.012*	.001*	MOYENNE
STD.DEV.	.000*	.001*	.022*	.002*	ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	.004	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001	.008	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.002	.012	L.001	75 <sup>e</sup>
90TH	L.001	.003	.022	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0008** LAT. **54 D 44 M 38 S** LONG. **113 D 33 M 37 S**UTM **12 335200E 6069100 N**  
APR 06, 1976 TO/A NOV 14, 1978

## GORSACK, S SPRING- BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>62(0)</b>		<b>62(0)</b>			<b>62(0)</b>	<b>62(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>828.</b>		<b>57.</b>			<b>7.7</b>	<b>243.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>1900.</b>		<b>188.</b>			<b>8.9</b>	<b>581.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1539.</b>		<b>146.9</b>				<b>520.4</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>238.</b>		<b>40.6</b>				<b>93.8</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1180.</b>		<b>74.</b>			<b>7.8</b>	<b>334.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1500.</b>		<b>120.</b>			<b>8.0</b>	<b>495.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1642.</b>		<b>170.0</b>			<b>8.1</b>	<b>569.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1660.</b>		<b>174.</b>			<b>8.3</b>	<b>572.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1700.</b>		<b>177.</b>			<b>8.5</b>	<b>573.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20105L CALCIUM DISSOLVED (CALCD.) CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>62(0)</b>	<b>62(0)</b>	<b>62(0)</b>	<b>62(0)</b>	<b>62(0)</b>	<b>62(0)</b>	<b>62(0)</b>	<b>62(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.3</b>	<b>162.</b>	<b>4.7</b>	<b>7.</b>	<b>0.</b>	<b>286.</b>	<b>17.</b>	<b>154.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>3.1</b>	<b>365.</b>	<b>52.1</b>	<b>15.</b>	<b>27.</b>	<b>708.</b>	<b>41.</b>	<b>365.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.6</b>	<b>314.4</b>	<b>37.2</b>	<b>13.1</b>	<b>2.</b>	<b>631.</b>	<b>32.4</b>	<b>265.2</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.4</b>	<b>49.3</b>	<b>13.4</b>	<b>2.1</b>	<b>5.</b>	<b>118.</b>	<b>5.8</b>	<b>42.5</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.9</b>	<b>220.</b>	<b>12.6</b>	<b>10.</b>	<b>0.</b>	<b>407.</b>	<b>20.</b>	<b>190.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.6</b>	<b>317.</b>	<b>28.4</b>	<b>13.</b>	<b>0.</b>	<b>601.</b>	<b>33.</b>	<b>253.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.8</b>	<b>333.0</b>	<b>44.9</b>	<b>14.0</b>	<b>0.</b>	<b>694.</b>	<b>34.0</b>	<b>277.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.9</b>	<b>340.</b>	<b>46.1</b>	<b>14.</b>	<b>0.</b>	<b>696.</b>	<b>35.</b>	<b>290.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>3.0</b>	<b>346.</b>	<b>47.3</b>	<b>15.</b>	<b>6.</b>	<b>698.</b>	<b>38.</b>	<b>300.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL (CALCD.) N MG/L	15407L PHOSPHATE TOTAL P04 MG/L	15256L PHOSPHORUS DISSOLVED ORTHO P04 P MG/L	15419L PHOSPHORUS TOTAL P MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>63(0)</b>	<b>63(13)</b>	<b>25(24)</b>	<b>62(0)</b>	<b>63(13)</b>	<b>2(0)</b>	<b>62(0)</b>	<b>20(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.66</b>	<b>L.001</b>	<b>L.001</b>	<b>.07</b>	<b>.69</b>	<b>.2</b>	<b>.005</b>	<b>.06</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.37</b>	<b>.157</b>	<b>L.1</b>	<b>2.12</b>	<b>2.38</b>	<b>.3</b>	<b>.118</b>	<b>.12</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.794</b>	<b>.031*</b>	<b>.033*</b>	<b>1.487</b>	<b>1.82*</b>	<b>.25</b>	<b>.025</b>	<b>.085</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.439</b>	<b>.036*</b>	<b>.047*</b>	<b>.482</b>	<b>.43*</b>	<b>.07</b>	<b>.020</b>	<b>.015</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.02</b>	<b>.003</b>	<b>L.001</b>	<b>.75</b>	<b>Q1.12</b>		<b>.008</b>	<b>.070</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.59</b>	<b>.009</b>	<b>L.001</b>	<b>1.19</b>	<b>Q1.59</b>		<b>.011</b>	<b>.070</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.94</b>	<b>.018</b>	<b>L.002</b>	<b>1.695</b>	<b>1.95</b>	<b>.25</b>	<b>.021</b>	<b>.085</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.12</b>	<b>.025</b>	<b>L.1</b>	<b>1.83</b>	<b>2.14</b>		<b>.032</b>	<b>.090</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.20</b>	<b>L.1</b>	<b>L.1</b>	<b>1.88</b>	<b>2.22</b>		<b>.050</b>	<b>.105</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	15L	11L	06L	55L 61L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0008 LAT. 54 D 44 M 38 S LONG 113 D 33 M 37 S

UTM 12 335200E 6069100N  
APR 06 1976 TO A NOV 14 1978

## GORSACK SPRING BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	08301L OXYGEN TOTAL COD O2	09105L FLUORIDE DISSOLVED F	23302L VANADIUM EXTRBL. V	25301L MANGANESE EXTRBL. MN	26302L IRON EXTRBL. FE	
SUBM ID	SI02 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	59(0)	63(8)	63(0)	48(3)	61(1)	12(12)	15(1)	62(1)	ECHANTILLONS(IND.)
LOW	3.5	L2.	18.	L5.	L.05	L.002	L.008	L.05	MINIMUM
HIGH	14.3	97.	163.	62.	.42	L.002	.069	2.44	MAXIMUM
AVERAGE	12.49	14.7*	123.6	19.*	.30*		.057*	1.484*	MOYENNE
STD.DEV.	2.01	16.5*	24.1	10.*	.07*		.015*	.657*	ECART-TYPE
PERCNT:10TH	9.3	L2.	91.	11.	.20	L.002	.040	.45	10 <sup>e</sup> PERCNT
25TH	12.3	4.	114.	14.	.30	L.0020	.055	1.08	25 <sup>e</sup>
MEDIAN 50TH	13.4	10.	129.	18.	.32	L.0020	.060	1.600	50 <sup>e</sup> MEDIANE
75TH	13.6	19.	140.	22.	.33	L.0020	.065	1.98	75 <sup>e</sup>
90TH	13.7	29.	145.	28.	.35	L.002	.068	2.26	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBL. CO	29302L COPPER EXTRBL. CU	30305L ZINC EXTRBL. ZN	42301L MOLYBDENUM EXTRBL. MO	
SUBM ID	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	13(12)	15(14)	16(7)	12(3)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	.001	.002	.245	.008	MAXIMUM
AVERAGE	.001*	.001*	.026*	.005*	MOYENNE
STD.DEV.	.000*	.000*	.066*	.003*	ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	L.001	.003*	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001	.002	.007	50 <sup>e</sup> MEDIANE
75TH	L.001	L.001	.008	.007	75 <sup>e</sup>
90TH	L.001	L.001	.126	.008	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0009** LAT. **54 D 45M 2 S** LONG. **113 D 33M 49 S**

UTM **12 335000E 6069850 N**  
APR 06, 1976 TO/A OCT 11, 1978

CROUCHER CREEK TRIBUTARY TO  
BAPTISTE LAKE - BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>14(0)</b>		<b>14(0)</b>			<b>14(0)</b>	<b>13(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>110.</b>		<b>46.</b>			<b>7.4</b>	<b>49.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>450.</b>		<b>223.</b>			<b>9.6</b>	<b>232.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>285.</b>		<b>126.6</b>				<b>144.8</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>107.</b>		<b>53.1</b>				<b>61.9</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>125.</b>		<b>46.</b>			<b>7.4</b>	<b>61.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>200.</b>		<b>79.</b>			<b>7.7</b>	<b>91.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>298.</b>		<b>136.5</b>			<b>7.9</b>	<b>144.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>367.</b>		<b>162.</b>			<b>8.5</b>	<b>190.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>409.</b>		<b>183.</b>			<b>9.0</b>	<b>215.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20105L CALCIUM DISSOLVED (CALCD.)	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>14(1)</b>	<b>14(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.5</b>	<b>1.7</b>	<b>8.5</b>	<b>5.</b>	<b>0.</b>	<b>51.</b>	<b>L1.</b>	<b>L10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>12.0</b>	<b>28.</b>	<b>57.9</b>	<b>19.</b>	<b>33.</b>	<b>262.</b>	<b>6.</b>	<b>48.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>5.2</b>	<b>18.8</b>	<b>32.0</b>	<b>11.3</b>	<b>8.</b>	<b>161.</b>	<b>2.9*</b>	<b>23.6*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>3.8</b>	<b>9.4</b>	<b>14.2</b>	<b>4.4</b>	<b>12.</b>	<b>70.</b>	<b>1.2*</b>	<b>10.2*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>2.6</b>	<b>4.</b>	<b>10.2</b>	<b>6.</b>	<b>0.</b>	<b>60.</b>	<b>2.</b>	<b>L10.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.8</b>	<b>12.</b>	<b>20.1</b>	<b>7.</b>	<b>0.</b>	<b>111.</b>	<b>2.</b>	<b>18.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>3.1</b>	<b>21.0</b>	<b>35.6</b>	<b>11.5</b>	<b>0.</b>	<b>176.</b>	<b>3.0</b>	<b>23.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>7.4</b>	<b>28.</b>	<b>41.7</b>	<b>15.</b>	<b>10.</b>	<b>215.</b>	<b>3.</b>	<b>29.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>11.6</b>	<b>28.</b>	<b>46.8</b>	<b>16.</b>	<b>30.</b>	<b>226.</b>	<b>4.</b>	<b>34.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L 03L	02L 03L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL (CALCD.)	15407L PHOSPHATE TOTAL	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15419L PHOSPHORUS TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	P MG/L	
<b>SAMPLES(FLAGS)</b>	<b>14(0)</b>	<b>14(2)</b>	<b>9(3)</b>	<b>14(6)</b>	<b>14(2)</b>	<b>2(0)</b>	<b>14(0)</b>	<b>7(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.2</b>	<b>L.001</b>	<b>L.001</b>	<b>L.05</b>	<b>1.25</b>	<b>.5</b>	<b>.022</b>	<b>.12</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>3.37</b>	<b>.6</b>	<b>L.1</b>	<b>.35</b>	<b>Q3.37</b>	<b>1.8</b>	<b>.361</b>	<b>.17</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.393</b>	<b>.145*</b>	<b>.027*</b>	<b>.124*</b>	<b>2.54*</b>	<b>1.15</b>	<b>.127</b>	<b>.143</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.598</b>	<b>.196*</b>	<b>.041*</b>	<b>.090*</b>	<b>.55*</b>	<b>.92</b>	<b>.101</b>	<b>.020</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.3</b>	<b>L.002</b>		<b>L.05</b>	<b>1.66</b>		<b>.035</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.20</b>	<b>.017</b>	<b>.005</b>	<b>L.05</b>	<b>2.40</b>		<b>.073</b>	<b>.12</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.545</b>	<b>.034</b>	<b>.006</b>	<b>.070</b>	<b>2.67</b>	<b>1.15</b>	<b>.093</b>	<b>.15</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.79</b>	<b>.356</b>	<b>.014</b>	<b>.18</b>	<b>2.87</b>		<b>.151</b>	<b>.16</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.85</b>	<b>.4</b>		<b>L.2</b>	<b>2.96</b>		<b>.319</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	15L	11L	06L	61L 55L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0009 LAT. 54 D 45M 2 S LONG. 113 D 33M 49 S

UTM 12 335000E 6069850 N  
APR 06 1976 TO/A OCT 11 1978CROUCHER CREEK TRIBUTARY TO  
BAPTISTE LAKE BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBLE.	25301L MANGANESE EXTRBLE.	26302L IRON EXTRBLE.	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	12(0)	14(0)	14(0)	10(0)	13(2)	2(2)	7(2)	14(0)	ECHANTILLONS(IND.)
LOW	6.2	23.	11.	70.	L.05	L.002	L.008	.1	MINIMUM
HIGH	14.4	58.	72.	154.	.18	L.002	.105	.8	MAXIMUM
AVERAGE	11.47	41.9	34.0	111.	.09*		.036*	.291	MOYENNE
STD.DEV.	2.69	9.7	18.1	25.	.04*		.036*	.177	ECART-TYPE
PERCNT:10TH	8.6	28.	11.	79.	L.05			.16	10 <sup>e</sup> PERCNT
25TH	9.70	35.	18.	90.	.07		L.008	.17	25 <sup>e</sup>
MEDIAN 50TH	11.60	43.5	36.5	108.	.07	L.0020	.030	.255	50 <sup>e</sup> MEDIANE
75TH	14.00	49.	46.	131.	.12		.060	.30	75 <sup>e</sup>
90TH	14.3	53.	52.	144.	.15			.49	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBLE.	29302L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	
SUBM ID	CO MG/L	CU MG/L	ZN MG/L	MO MG/L	
SAMPLES(FLAGS)	2(2)	7(6)	7(1)	2(2)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	L.001	.002	.040	L.001	MAXIMUM
AVERAGE		.001*	.014*		MOYENNE
STD.DEV.		.000*	.015*		ECART-TYPE
PERCNT:10TH					10 <sup>e</sup> PERCNT
25TH		L.001	.003		25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001	.007	L.001	50 <sup>e</sup> MEDIANE
75TH		L.001	.029		75 <sup>e</sup>
90TH					90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07BE0010 LAT. 54 D 45M 16 S LONG. 113 D 33M 55 S

UTM 12 334900E 6070250 N  
APR 06, 1976 TO/A NOV 07, 1978

NARROWS SOUTH WEST TRIBUTARY TO  
BAPTISTE LAKE - BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	39(0)		39(0)			39(0)	38(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>205.</b>		<b>85.</b>			<b>7.1</b>	<b>84.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>799.</b>		<b>414.</b>			<b>8.9</b>	<b>358.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>485.</b>		<b>233.2</b>				<b>213.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>148.</b>		<b>89.4</b>				<b>75.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>300.</b>		<b>112.</b>			<b>7.4</b>	<b>113.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>342.</b>		<b>146.</b>			<b>7.7</b>	<b>141.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>498.</b>		<b>239.</b>			<b>7.9</b>	<b>212.5</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>616.</b>		<b>308.</b>			<b>8.4</b>	<b>272.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>664.</b>		<b>340.</b>			<b>8.7</b>	<b>322.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20105L CALCIUM DISSOLVED (CALCD.)	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	39(0)	39(0)	38(0)	38(0)	38(0)	38(0)	39(3)	38(2)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>3.1</b>	<b>3.</b>	<b>20.8</b>	<b>7.</b>	<b>0.</b>	<b>102.</b>	<b>L1.</b>	<b>L10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>50.0</b>	<b>36.</b>	<b>114.5</b>	<b>31.</b>	<b>39.</b>	<b>436.</b>	<b>29.</b>	<b>107.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>9.4</b>	<b>19.3</b>	<b>62.8</b>	<b>19.1</b>	<b>5.</b>	<b>250.</b>	<b>3.7*</b>	<b>50.8*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>8.4</b>	<b>9.1</b>	<b>24.8</b>	<b>6.8</b>	<b>12.</b>	<b>84.</b>	<b>4.5*</b>	<b>23.6*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>3.6</b>	<b>6.</b>	<b>30.1</b>	<b>10.</b>	<b>0.</b>	<b>138.</b>	<b>2.</b>	<b>23.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>4.9</b>	<b>10.</b>	<b>39.4</b>	<b>12.</b>	<b>0.</b>	<b>172.</b>	<b>2.</b>	<b>32.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>6.5</b>	<b>21.</b>	<b>66.4</b>	<b>20.5</b>	<b>0.</b>	<b>249.</b>	<b>2.</b>	<b>50.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>10.5</b>	<b>27.</b>	<b>83.6</b>	<b>24.</b>	<b>0.</b>	<b>306.</b>	<b>4.</b>	<b>63.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>18.0</b>	<b>29.1</b>	<b>93.5</b>	<b>27.</b>	<b>34.</b>	<b>365.</b>	<b>5.</b>	<b>84.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL (CALCD.)	15407L PHOSPHATE TOTAL	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15419L PHOSPHORUS TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P04 MG/L	P MG/L	P MG/L	
<b>SAMPLES(FLAGS)</b>	39(0)	38(4)	32(5)	39(11)	38(3)	2(0)	38(0)	28(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.72</b>	<b>L.002</b>	<b>L.001</b>	<b>L.05</b>	<b>.79</b>	<b>.5</b>	<b>.007</b>	<b>.10</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>11.88</b>	<b>1.2</b>	<b>L.1</b>	<b>2.41</b>	<b>11.90</b>	<b>1.6</b>	<b>1.484</b>	<b>3.00</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.948</b>	<b>.164*</b>	<b>.022*</b>	<b>.383*</b>	<b>3.17*</b>	<b>1.05</b>	<b>.182</b>	<b>.360</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>2.165</b>	<b>.220*</b>	<b>.031*</b>	<b>.531*</b>	<b>2.19*</b>	<b>.78</b>	<b>.268</b>	<b>.576</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.89</b>	<b>.009</b>	<b>.005</b>	<b>L.05</b>	<b>1.84</b>		<b>.017</b>	<b>.11</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.05</b>	<b>.037</b>	<b>.006</b>	<b>L.05</b>	<b>2.27</b>		<b>.066</b>	<b>.145</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.42</b>	<b>L.100</b>	<b>.010</b>	<b>.11</b>	<b>2.59</b>	<b>1.05</b>	<b>.099</b>	<b>.175</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.75</b>	<b>.203</b>	<b>.017</b>	<b>.50</b>	<b>2.94</b>		<b>.150</b>	<b>.265</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>6.44</b>	<b>.356</b>	<b>L.1</b>	<b>1.32</b>	<b>6.49</b>		<b>.532</b>	<b>.68</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	15L	11L	06L	61L 55L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07BE0010 LAT 54 D 45 M 16 S LONG. 113 D 33 M 55 S

UTM 12 334900E 6070250 N  
APR 06 1976 TO A NOV 07 1978NARROWS SOUTH WEST TRIBUTARY TO  
BAPTISTE LAKE BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	21302L VANADIUM EXTRBL.	25301L MANGANESE EXTRBL.	26002L IRON EXTRBL.	
SUBM ID	SiO <sub>2</sub> MG/L	C MG/L	C MG/L	O <sub>2</sub> MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	37(0)	39(1)	39(0)	34(0)	39(4)	15(15)	24(0)	39(0)	ECHANTILLONS(IND.)
LOW	5.3	L2.	7.	59.	L.05	L.002	.010	.16	MINIMUM
HIGH	20.2	167.	108.	308.	.52	L.002	.270	1.39	MAXIMUM
AVERAGE	11.79	45.3*	50.8	95.	.12*		.077	.354	MOYENNE
STD.DEV.	3.66	31.1*	22.4	43.	.08*		.081	.216	ECART-TYPE
PERCNT:10TH	8.2	24.	26.	63.	L.05	L.002	.020	.19	10 <sup>e</sup> PERCNT
25TH	9.4	26.	32.	70.	.07	L.002	.025	.24	25 <sup>e</sup>
MEDIAN 50TH	10.9	37.	48.	85.	.11	L.002	.034	.30	50 <sup>e</sup> MEDIANE
75TH	14.4	50.	67.	106.	.14	L.002	.129	.39	75 <sup>e</sup>
90TH	17.1	87.	83.	122.	.17	L.002	.225	.47	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBL. CO	29302L COPPER EXTRBL. CU	30305L ZINC EXTRBL. ZN	42301L MOLYBDENUM EXTRBL. MO	
SUBM ID	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	15(14)	25(13)	25(5)	15(15)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	.002	.005	.020	L.001	MAXIMUM
AVERAGE	.001*	.002*	.006*		MOYENNE
STD.DEV.	.000*	.001*	.006*		ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	.002	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001	.004	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.002	.010	L.001	75 <sup>e</sup>
90TH	L.001	.003	.018	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0011** LAT. **54 D 46M 4 S** LONG. **113 D 33M 53 S**

UTM **12 335000E 6071750 N**  
APR 06, 1976 TO/A NOV 07, 1978

NARROWS NORTH WEST TRIBUTARY TO  
BAPTISTE LAKE - BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>41(0)</b>		<b>41(0)</b>			<b>41(0)</b>	<b>41(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	165.		62.			7.2	74.		MINIMUM
HIGH	1600.		414.			9.4	400.		MAXIMUM
AVERAGE	560.		240.5				194.7		MOYENNE
STD.DEV.	281.		112.8				91.9		ECART-TYPE
PERCNT:10TH	214.		81.			7.4	81.		10 <sup>e</sup> PERCNT
25TH	313.		112.			7.8	112.		25 <sup>e</sup>
MEDIAN 50TH	600.		263.			7.9	206.		50 <sup>e</sup> MEDIANE
75TH	740.		332.			8.3	255.		75 <sup>e</sup>
90TH	817.		377.			8.6	312.		90 <sup>e</sup>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20105L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>41(0)</b>	<b>41(0)</b>	<b>41(0)</b>	<b>41(0)</b>	<b>41(0)</b>	<b>41(0)</b>	<b>41(2)</b>	<b>41(2)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	2.6	2.	14.5	5.	0.	61.	L1.	L10.	MINIMUM
HIGH	39.6	50.	114.5	35.	45.	488.	8.	278.	MAXIMUM
AVERAGE	8.9	26.7	61.7	20.9	4.	228.	2.9*	89.5*	MOYENNE
STD.DEV.	6.4	15.2	29.6	10.2	10.	108.	1.3*	67.6*	ECART-TYPE
PERCNT:10TH	3.2	5.	22.5	7.	0.	94.	2.	15.	10 <sup>e</sup> PERCNT
25TH	4.8	11.	30.0	10.	0.	132.	2.	29.	25 <sup>e</sup>
MEDIAN 50TH	8.5	27.	72.2	22.	0.	241.	3.	71.	50 <sup>e</sup> MEDIANE
75TH	9.9	41.	84.6	29.	0.	301.	3.	127.	75 <sup>e</sup>
90TH	14.2	45.	95.9	34.	20.	356.	4.	175.	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL (CALCD.) N MG/L	15407L PHOSPHATE TOTAL P MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15419L PHOSPHORUS TOTAL P MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>42(0)</b>	<b>42(8)</b>	<b>29(9)</b>	<b>42(20)</b>	<b>42(8)</b>	<b>3(0)</b>	<b>42(0)</b>	<b>23(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	.96	L.002	L.001	L.05	.98	.2	.011	.07	MINIMUM
HIGH	7.94	.863	L.1	1.22	8.17	2.3	1.874	2.25	MAXIMUM
AVERAGE	2.368	.111*	.032*	.159*	2.48*	.97	.175	.318	MOYENNE
STD.DEV.	1.283	.199*	.041*	.254*	1.34*	1.16	.317	.500	ECART-TYPE
PERCNT:10TH	1.31	.008	.003	L.05	1.32		.021	.08	10 <sup>e</sup> PERCNT
25TH	1.67	.013	.004	L.05	Q1.78		.035	.09	25 <sup>e</sup>
MEDIAN 50TH	2.270	.048*	.006	.065	2.36	.4	.065	.12	50 <sup>e</sup> MEDIANE
75TH	2.66	L.1	.055	.13	2.73		.137	.33	75 <sup>e</sup>
90TH	3.12	.200	L.1	.22	3.15		.439	.61	90 <sup>e</sup>
SECONDARY CODE	15L	11L	06L	61L 55L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0011 LAT. 54 D 46M 4 S LONG. 113 D 33M 53 S

UTM 12 335000E 6071750 N

APR 06 1976 TO/A NOV 07 1978

NARROWS NORTH WEST TRIBUTARY TO  
BAPTISTE LAKE BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBLE.	25301L MANGANESE EXTRBLE.	26302L IRON EXTRBLE.	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	38(0)	41(0)	41(0)	34(0)	41(9)	16(16)	20(7)	41(0)	ECHANTILLONS(IND.)
LOW	3.6	3.	6.	28.	L.05	L.002	L.008	.06	MINIMUM
HIGH	17.5	155.	97.	194.	.20	L.002	.069	1.04	MAXIMUM
AVERAGE	10.58	42.2	44.5	83.	.09*		.015*	.165	MOYENNE
STD.DEV.	3.32	32.3	21.8	32.	.04*		.014*	.170	ECART-TYPE
PERCNT:10TH	7.6	20.	20.	54.	L.05	L.002	L.008	.08	10 <sup>e</sup> PERCNT
25TH	8.7	24.	29.	59.	.06	L.0020	L.008	.09	25 <sup>e</sup>
MEDIAN 50TH	9.50	34.	40.	82.	.08	L.0020	.010	.11	50 <sup>e</sup> MEDIANE
75TH	12.7	48.	59.	109.	.12	L.0020	.017	.16	75 <sup>e</sup>
90TH	15.8	79.	77.	118.	.14	L.002	.028	.25	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBLE.	29302L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	
SUBM ID	CO MG/L	CU MG/L	ZN MG/L	MO MG/L	
SAMPLES(FLAGS)	15(15)	21(9)	21(7)	16(16)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	L.001	.008	.033	L.001	MAXIMUM
AVERAGE		.002*	.007*		MOYENNE
STD.DEV.		.002*	.009*		ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	L.001	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	.002	.003	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.002	.008	L.001	75 <sup>e</sup>
90TH	L.001	.003	.014	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0012** LAT. **54 D 46 M 48 S** LONG. **113 D 34 M 17 S**

UTM **12 334650 E 6073100 N**  
APR 06, 1976 TO/A OCT 02, 1978

NORTH BASIN BOTTOM WEST SIDE  
BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>		<b>18(0)</b>			<b>18(0)</b>	<b>18(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>253.</b>		<b>119.</b>			<b>7.4</b>	<b>107.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>759.</b>		<b>435.</b>			<b>8.7</b>	<b>395.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>483.</b>		<b>250.8</b>				<b>234.1</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>151.</b>		<b>95.0</b>				<b>79.6</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>302.</b>		<b>137.</b>			<b>7.7</b>	<b>135.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>350.</b>		<b>170.</b>			<b>7.8</b>	<b>179.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>458.</b>		<b>226.0</b>			<b>8.0</b>	<b>215.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>586.</b>		<b>321.</b>			<b>8.4</b>	<b>270.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>722.</b>		<b>386.</b>			<b>8.6</b>	<b>369.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20105L CALCIUM DISSOLVED (CALCD.)	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>3.4</b>	<b>5.</b>	<b>24.5</b>	<b>9.</b>	<b>0.</b>	<b>120.</b>	<b>2.</b>	<b>L10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>16.4</b>	<b>35.</b>	<b>109.7</b>	<b>39.</b>	<b>47.</b>	<b>450.</b>	<b>6.</b>	<b>80.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>10.0</b>	<b>12.1</b>	<b>60.6</b>	<b>24.1</b>	<b>6.</b>	<b>274.</b>	<b>3.8</b>	<b>33.2*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>4.9</b>	<b>6.9</b>	<b>25.0</b>	<b>8.4</b>	<b>14.</b>	<b>88.</b>	<b>1.6</b>	<b>21.0*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>4.2</b>	<b>5.</b>	<b>28.4</b>	<b>14.</b>	<b>0.</b>	<b>165.</b>	<b>2.</b>	<b>L10.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>5.4</b>	<b>8.</b>	<b>40.0</b>	<b>17.</b>	<b>0.</b>	<b>218.</b>	<b>2.</b>	<b>15.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>10.3</b>	<b>11.5</b>	<b>50.8</b>	<b>23.0</b>	<b>0.</b>	<b>253.</b>	<b>3.5</b>	<b>25.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>15.7</b>	<b>14.</b>	<b>83.1</b>	<b>30.</b>	<b>5.</b>	<b>329.</b>	<b>5.</b>	<b>50.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>16.4</b>	<b>17.</b>	<b>93.4</b>	<b>37.</b>	<b>37.</b>	<b>418.</b>	<b>6.</b>	<b>67.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL (CALCD.)	15407L PHOSPHATE TOTAL	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15419L PHOSPHORUS TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P04 MG/L	P MG/L	P MG/L	
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>13(1)</b>	<b>18(13)</b>	<b>18(0)</b>	<b>2(0)</b>	<b>17(0)</b>	<b>12(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.4</b>	<b>.002</b>	<b>.002</b>	<b>L.05</b>	<b>1.47</b>	<b>.4</b>	<b>.029</b>	<b>.05</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>5.07</b>	<b>.231</b>	<b>L.1</b>	<b>.20</b>	<b>5.10</b>	<b>1.6</b>	<b>.413</b>	<b>.57</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.772</b>	<b>.058</b>	<b>.013*</b>	<b>.086*</b>	<b>2.83</b>	<b>1.00</b>	<b>.149</b>	<b>.215</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.907</b>	<b>.063</b>	<b>.026*</b>	<b>.057*</b>	<b>.92</b>	<b>.85</b>	<b>.126</b>	<b>.172</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.68</b>	<b>.005</b>	<b>.004</b>	<b>L.05</b>	<b>1.69</b>		<b>.034</b>	<b>.07</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.24</b>	<b>.022</b>	<b>.004</b>	<b>L.05</b>	<b>2.27</b>		<b>.050</b>	<b>.080</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.720</b>	<b>.030</b>	<b>.004</b>	<b>L.050</b>	<b>2.74</b>	<b>1.00</b>	<b>.077</b>	<b>.140</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>3.02</b>	<b>.073</b>	<b>.005</b>	<b>.09</b>	<b>3.17</b>		<b>.208</b>	<b>.355</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>4.14</b>	<b>.180</b>	<b>.017</b>	<b>L.2</b>	<b>4.21</b>		<b>.334</b>	<b>.42</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	15L	11L	06L	61L 55L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0012 LAT. 54 D 46 M 48 S LONG. 113 D 34 M 17 S

UTM 12 334650E 6073100 N  
APR 06 1976 TO: A OCT 02 1978

NORTH BASIN BOTTOM WEST SIDE  
BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBLE.	25301L MANGANESE EXTRBLE.	26302L IRON EXTRBLE.	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	16(0)	18(0)	18(0)	15(0)	18(5)	9(9)	11(6)	18(9)	ECHANTILLONS(IND.)
LOW	6.9	6.	22.	39.	L.05	L.002	L.008	L.05	MINIMUM
HIGH	18.3	116.	119.	126.	.23	L.002	.022	.6	MAXIMUM
AVERAGE	12.78	47.3	55.3	91.	.10*		.011*	.143*	MOYENNE
STD.DEV.	3.47	28.0	25.5	21.	.05*		.005*	.164*	ECART-TYPE
PERCNT:10TH	7.3	25.	23.	70.	L.05		L.008	L.05	10 <sup>e</sup> PERCNT
25TH	9.80	31.	39.	86.	L.05	L.002	L.008	L.05	25 <sup>e</sup>
MEDIAN 50TH	13.40	40.0	50.0	93.	.09	L.002	L.008	.065	50 <sup>e</sup> MEDIANE
75TH	15.35	47.	70.	101.	.11	L.002	.013	.12	75 <sup>e</sup>
90TH	17.	107.	98.	114.	.18		.020	.47	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBLE.	29302L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	
SUBM ID	CO MG/L	CU MG/L	ZN MG/L	MO MG/L	
SAMPLES(FLAGS)	9(9)	12(6)	12(3)	9(9)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	L.001	.005	.015	L.001	MAXIMUM
AVERAGE		.002*	.006*		MOYENNE
STD.DEV.		.001*	.004*		ECART-TYPE
PERCNT:10TH		L.001	L.001		10 <sup>e</sup> PERCNT
25TH	L.001	L.001	.002*	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	.001*	.005	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.003	.009	L.001	75 <sup>e</sup>
90TH		.003	.010		90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0013** LAT. **54 D 47 M 9 S** LONG. **113 D 34 M 31 S**

UTM **12 334400E 6073800 N**  
APR 06, 1976 TO/A NOV 14, 1978

TRIBUTARY TO BOTTOM NORTH BASIN,  
WEST SIDE OF BAPTISTE LAKE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>65(0)</b>		<b>65(0)</b>			<b>65(0)</b>	<b>65(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>146.</b>		<b>50.</b>			<b>7.4</b>	<b>58.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>780.</b>		<b>292.</b>			<b>9.5</b>	<b>408.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>391.</b>		<b>158.2</b>				<b>196.5</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>113.</b>		<b>45.5</b>				<b>57.7</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>280.</b>		<b>112.</b>			<b>7.6</b>	<b>139.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>312.</b>		<b>128.</b>			<b>7.7</b>	<b>158.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>385.</b>		<b>164.</b>			<b>8.0</b>	<b>193.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>436.</b>		<b>183.</b>			<b>8.3</b>	<b>226.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>545.</b>		<b>204.</b>			<b>8.7</b>	<b>272.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20105L CALCIUM DISSOLVED (CALCD.)	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>65(0)</b>	<b>66(0)</b>	<b>65(0)</b>	<b>65(0)</b>	<b>65(0)</b>	<b>65(0)</b>	<b>65(2)</b>	<b>65(24)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.5</b>	<b>7.</b>	<b>11.8</b>	<b>2.</b>	<b>0.</b>	<b>71.</b>	<b>L1.</b>	<b>L10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>9.9</b>	<b>92.</b>	<b>70.2</b>	<b>30.</b>	<b>31.</b>	<b>497.</b>	<b>11.</b>	<b>108.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>4.3</b>	<b>31.0</b>	<b>41.8</b>	<b>13.0</b>	<b>2.</b>	<b>235.</b>	<b>3.2*</b>	<b>19.1*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>2.5</b>	<b>14.6</b>	<b>12.6</b>	<b>4.1</b>	<b>6.</b>	<b>73.</b>	<b>1.9*</b>	<b>15.6*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.9</b>	<b>16.</b>	<b>27.6</b>	<b>9.</b>	<b>0.</b>	<b>165.</b>	<b>2.</b>	<b>L10.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.4</b>	<b>20.</b>	<b>33.9</b>	<b>10.</b>	<b>0.</b>	<b>193.</b>	<b>2.</b>	<b>L10.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>3.0</b>	<b>28.0</b>	<b>41.8</b>	<b>13.</b>	<b>0.</b>	<b>235.</b>	<b>3.</b>	<b>14.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>6.1</b>	<b>39.</b>	<b>49.6</b>	<b>15.</b>	<b>0.</b>	<b>272.</b>	<b>3.</b>	<b>23.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>8.5</b>	<b>50.</b>	<b>56.9</b>	<b>17.</b>	<b>5.</b>	<b>332.</b>	<b>6.</b>	<b>32.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL (CALCD.)	15407L PHOSPHATE TOTAL	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15419L PHOSPHORUS TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P04 MG/L	P MG/L	P MG/L	
<b>SAMPLES(FLAGS)</b>	<b>66(0)</b>	<b>66(10)</b>	<b>40(9)</b>	<b>66(19)</b>	<b>66(10)</b>	<b>3(0)</b>	<b>65(0)</b>	<b>32(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.85</b>	<b>L.002</b>	<b>L.001</b>	<b>L.05</b>	<b>.94</b>	<b>.3</b>	<b>.017</b>	<b>.10</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>4.79</b>	<b>.623</b>	<b>L.1</b>	<b>.86</b>	<b>4.81</b>	<b>1.2</b>	<b>.270</b>	<b>.60</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.305</b>	<b>.057*</b>	<b>.025*</b>	<b>.141*</b>	<b>2.36*</b>	<b>.63</b>	<b>.088</b>	<b>.226</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.738</b>	<b>.086*</b>	<b>.038*</b>	<b>.127*</b>	<b>.74*</b>	<b>.49</b>	<b>.064</b>	<b>.106</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.3</b>	<b>.004</b>	<b>.003</b>	<b>L.05</b>	<b>1.31</b>		<b>.024</b>	<b>.12</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.97</b>	<b>.019</b>	<b>.004</b>	<b>.06</b>	<b>1.99</b>		<b>.041</b>	<b>.145</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.370</b>	<b>.035</b>	<b>.007</b>	<b>.100</b>	<b>2.42</b>	<b>.4</b>	<b>.071</b>	<b>.220</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.64</b>	<b>.078</b>	<b>.013</b>	<b>.19</b>	<b>2.71</b>		<b>.105</b>	<b>.285</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>3.00</b>	<b>L.10</b>	<b>L.100</b>	<b>.28</b>	<b>3.12</b>		<b>.168</b>	<b>.34</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	15L	11L	06L	55L 51L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0013 LAT. 54 D 47M 9 S LONG. 113 D 34M 31 S

UTM 12 334400E 6073800 N  
APR 06 1976 TO/A NOV 14 1978TRIBUTARY TO BOTTOM NORTH BASIN  
WEST SIDE OF BAPTISTE LAKE

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBLE.	25301L MANGANESE EXTRBLE	26302L IRON EXTRBLE	
SUBM ID	SiO2 MG/L	MG/L	MG/L	O2 MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	60(0)	66(1)	66(0)	55(0)	65(4)	18(18)	28(0)	65(0)	ECHANTILLONS(IND.)
LOW	2.6	L2.	13.	35.	L.05	L.002	.020	.14	MINIMUM
HIGH	19.8	50.	75.	129.	.25	L.002	.900	2.33	MAXIMUM
AVERAGE	10.02	32.2*	45.1	81.	.11*		.169	.569	MOYENNE
STD.DEV.	3.26	9.0*	13.9	19.	.04*		.163	.316	ECART-TYPE
PERCNT:10TH	6.50	21.	29.	53.	.06	L.002	.038	.29	10 <sup>e</sup> PERCNT
25TH	7.70	27.	36.	67.	.07	L.002	.091	.40	25 <sup>e</sup>
MEDIAN 50TH	10.10	33.0	43.5	83.	.11	L.0020	.133	.51	50 <sup>e</sup> MEDIANE
75TH	12.10	38.	54.	95.	.12	L.002	.210	.67	75 <sup>e</sup>
90TH	13.80	42.	67.	100.	.15	L.002	.268	.79	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBLE. CO	29302L COPPER EXTRBLE CU	30305L ZINC EXTRBLE. ZN	42301L MOLYBDENUM EXTRBLE. MO	
SUBM ID	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	19(19)	29(20)	30(8)	18(18)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	L.001	.007	.068	L.001	MAXIMUM
AVERAGE		.002*	.010*		MOYENNE
STD.DEV.		.001*	.014*		ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	L.001	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001	.006	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.002	.013	L.001	75 <sup>e</sup>
90TH	L.001	.003	.030	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0014** LAT. **54 D 47M 25 S** LONG. **113 D 34M 10 S**

UTM **12 334800E 6074250 N**  
APR 06, 1976 TO/A APR 26, 1978

TRIBUTARY TO TOP NORTH BASIN,  
WEST SIDE OF BAPTISTE LAKE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>26(0)</b>		<b>26(0)</b>			<b>26(0)</b>	<b>26(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>150.</b>		<b>69.</b>			<b>6.8</b>	<b>70.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>680.</b>		<b>362.</b>			<b>8.8</b>	<b>258.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>404.</b>		<b>180.7</b>				<b>160.2</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>124.</b>		<b>67.1</b>				<b>49.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>220.</b>		<b>86.</b>			<b>7.1</b>	<b>87.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>305.</b>		<b>115.</b>			<b>7.7</b>	<b>121.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>425.</b>		<b>191.5</b>			<b>7.9</b>	<b>179.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>482.</b>		<b>221.</b>			<b>8.2</b>	<b>194.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>525.</b>		<b>243.</b>			<b>8.5</b>	<b>203.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20105L CALCIUM DISSOLVED (CALCD.) CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>26(0)</b>	<b>26(0)</b>	<b>26(0)</b>	<b>26(0)</b>	<b>25(0)</b>	<b>25(0)</b>	<b>26(1)</b>	<b>26(4)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>4.4</b>	<b>2.</b>	<b>19.4</b>	<b>4.</b>	<b>0.</b>	<b>85.</b>	<b>L1.</b>	<b>L10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>25.0</b>	<b>27.</b>	<b>100.3</b>	<b>27.</b>	<b>6.</b>	<b>315.</b>	<b>6.</b>	<b>118.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>11.8</b>	<b>12.8</b>	<b>49.5</b>	<b>13.8</b>	<b>1.</b>	<b>194.</b>	<b>3.3*</b>	<b>42.3*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>4.2</b>	<b>5.3</b>	<b>19.5</b>	<b>4.8</b>	<b>2.</b>	<b>63.</b>	<b>1.1*</b>	<b>26.8*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>8.8</b>	<b>5.</b>	<b>22.9</b>	<b>7.</b>	<b>0.</b>	<b>96.</b>	<b>2.</b>	<b>L10.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>9.2</b>	<b>10.</b>	<b>28.4</b>	<b>12.</b>	<b>0.</b>	<b>135.</b>	<b>3.</b>	<b>18.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>10.9</b>	<b>14.0</b>	<b>53.8</b>	<b>14.5</b>	<b>0.</b>	<b>223.</b>	<b>3.0</b>	<b>40.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>12.7</b>	<b>16.</b>	<b>62.0</b>	<b>17.</b>	<b>0.</b>	<b>234.</b>	<b>4.</b>	<b>62.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>16.3</b>	<b>17.</b>	<b>66.8</b>	<b>18.</b>	<b>5.</b>	<b>247.</b>	<b>5.</b>	<b>71.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL (CALCD.) N MG/L	15407L PHOSPHATE TOTAL P04 MG/L	15256L PHOSPHORUS DISSOLVED ORTHO P04 P MG/L	15419L PHOSPHORUS TOTAL P MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>26(0)</b>	<b>27(5)</b>	<b>18(5)</b>	<b>26(12)</b>	<b>26(5)</b>	<b>2(0)</b>	<b>26(0)</b>	<b>14(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.23</b>	<b>L.002</b>	<b>L.002</b>	<b>L.05</b>	<b>.27</b>	<b>.3</b>	<b>.014</b>	<b>.09</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>4.51</b>	<b>1.850</b>	<b>L.1</b>	<b>1.28</b>	<b>4.55</b>	<b>2.4</b>	<b>.777</b>	<b>.94</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.120</b>	<b>.282*</b>	<b>.031*</b>	<b>.137*</b>	<b>2.39*</b>	<b>1.35</b>	<b>.186</b>	<b>.321</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.939</b>	<b>.455*</b>	<b>.041*</b>	<b>.245*</b>	<b>1.18*</b>	<b>1.48</b>	<b>.222</b>	<b>.279</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.98</b>	<b>.003</b>	<b>.003</b>	<b>L.05</b>	<b>1.05</b>		<b>.018</b>	<b>.09</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.4</b>	<b>.025</b>	<b>.003</b>	<b>L.05</b>	<b>Q1.50</b>		<b>.049</b>	<b>.13</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.130</b>	<b>.039</b>	<b>.009</b>	<b>.060</b>	<b>2.15</b>	<b>1.35</b>	<b>.090</b>	<b>.185</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.70</b>	<b>.4</b>	<b>.067</b>	<b>.11</b>	<b>3.32</b>		<b>.252</b>	<b>.37</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>3.42</b>	<b>.959</b>	<b>L.1</b>	<b>.21</b>	<b>4.05</b>		<b>.574</b>	<b>.81</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	15L	11L	06L	61L 55L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0014 LAT. 54 D 47M 25 S LONG. 113 D 34M 10 S

UTM 12 334800E 6074250N  
APR 06 1976 TO A APR 26 1978

TRIBUTARY TO TOP NORTH BASIN  
WEST SIDE OF BAPTISTE LAKE

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	08301L OXYGEN TOTAL COD O2	09105L FLUORIDE DISSOLVED F	23302L VANADIUM EXTRBLE. V	25101L MANGANESE EXTRBLE. MN	26102L IRON EXTRBLE. FE	
SUBM ID	MG L	MG L	MG L	MG L	MG L	MG L	MG L	MG L	
SAMPLES(FLAGS)	24(0)	26(0)	26(0)	22(0)	26(4)	12(12)	11(3)	26(3)	ECHANTILLONS(IND.)
LOW	4.5	12.	5.	37.	L.05	L.002	L.008	L.05	MINIMUM
HIGH	11.5	42.	54.	196.	.48	L.002	.225	.7	MAXIMUM
AVERAGE	8.59	27.2	35.2	72.	.11*		.048*	.150*	MOYENNE
STD.DEV.	2.04	8.0	13.0	35.	.08*		.064*	.143*	ECART-TYPE
PERCNT:10TH	5.8	15.	18.	39.	L.05	L.002	L.008	L.05	10 <sup>e</sup> PERCNT
25TH	7.20	23.	22.	46.	.08	L.0020	L.008	.07	25 <sup>e</sup>
MEDIAN 50TH	8.30	28.0	37.5	63.	.10	L.0020	.025	.110	50 <sup>e</sup> MEDIANE
75TH	10.70	34.	45.	85.	.12	L.0020	.062	.15	75 <sup>e</sup>
90TH	11.4	36.	50.	100.	.15	L.002	.080	.31	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBLE. CO	29302L COPPER EXTRBLE. CU	30305L ZINC EXTRBLE. ZN	42301L MOLYBDENUM EXTRBLE. MO	
SUBM ID	MG L	MG L	MG L	MG L	
SAMPLES(FLAGS)	12(12)	12(0)	12(3)	12(12)	ECHANTILLONS(IND.)
LOW	L.001	.002	L.001	L.001	MINIMUM
HIGH	L.001	.006	.053	L.001	MAXIMUM
AVERAGE		.003	.010*		MOYENNE
STD.DEV.		.001	.015*		ECART-TYPE
PERCNT:10TH	L.001	.002	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	.002	.002*	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	.003	.005	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.003	.011	L.001	75 <sup>e</sup>
90TH	L.001	.005	.020	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0015** LAT. **54 D 46 M 37 S** LONG. **113 D 31 M 4 S**UTM **12 338050 E 6072650 N**  
APR 06, 1976 TO/A NOV 07, 1978CATTLE CROSSING CREEK TRIBUTARY TO  
BAPTISTE LAKE- BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>64(0)</b>		<b>64(0)</b>			<b>64(0)</b>	<b>64(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>152.</b>		<b>52.</b>			<b>7.1</b>	<b>48.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>506.</b>		<b>163.</b>			<b>9.6</b>	<b>182.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>258.</b>		<b>108.7</b>				<b>115.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>56.</b>		<b>24.3</b>				<b>28.8</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>210.</b>		<b>75.</b>			<b>7.4</b>	<b>79.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>225.</b>		<b>91.0</b>			<b>7.5</b>	<b>92.0</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>256.</b>		<b>107.0</b>			<b>7.8</b>	<b>120.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>286.</b>		<b>129.0</b>			<b>8.3</b>	<b>138.5</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>298.</b>		<b>135.</b>			<b>9.3</b>	<b>149.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20105L CALCIUM DISSOLVED (CALCD.)	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>64(0)</b>	<b>64(0)</b>	<b>64(0)</b>	<b>64(0)</b>	<b>64(0)</b>	<b>64(0)</b>	<b>64(2)</b>	<b>64(24)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.2</b>	<b>4.</b>	<b>12.6</b>	<b>5.</b>	<b>0.</b>	<b>46.</b>	<b>L1.</b>	<b>L10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>52.8</b>	<b>23.</b>	<b>45.4</b>	<b>13.</b>	<b>35.</b>	<b>222.</b>	<b>29.</b>	<b>55.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>9.0</b>	<b>14.0</b>	<b>28.2</b>	<b>9.3</b>	<b>4.</b>	<b>134.</b>	<b>5.2*</b>	<b>18.5*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>9.6</b>	<b>4.8</b>	<b>6.9</b>	<b>2.0</b>	<b>9.</b>	<b>36.</b>	<b>5.5*</b>	<b>9.9*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>3.2</b>	<b>7.</b>	<b>18.6</b>	<b>7.</b>	<b>0.</b>	<b>93.</b>	<b>2.</b>	<b>L10.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>3.7</b>	<b>10.0</b>	<b>22.6</b>	<b>8.0</b>	<b>0.</b>	<b>105.</b>	<b>2.0</b>	<b>L10.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>5.0</b>	<b>15.0</b>	<b>28.4</b>	<b>9.5</b>	<b>0.</b>	<b>135.</b>	<b>3.0</b>	<b>15.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>11.3</b>	<b>18.0</b>	<b>33.5</b>	<b>11.0</b>	<b>0.</b>	<b>160.</b>	<b>6.0</b>	<b>23.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>19.6</b>	<b>20.</b>	<b>35.9</b>	<b>12.</b>	<b>10.</b>	<b>180.</b>	<b>12.</b>	<b>32.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L 03L	03L 02L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL (CALCD.)	15407L PHOSPHATE TOTAL	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15419L PHOSPHORUS TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P04 MG/L	P MG/L	P MG/L	
<b>SAMPLES(FLAGS)</b>	<b>64(0)</b>	<b>65(14)</b>	<b>42(12)</b>	<b>64(16)</b>	<b>64(14)</b>	<b>3(0)</b>	<b>62(0)</b>	<b>31(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.66</b>	<b>L.001</b>	<b>L.001</b>	<b>L.05</b>	<b>.67</b>	<b>1.0</b>	<b>.017</b>	<b>.14</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>17.10</b>	<b>1.3</b>	<b>L.1</b>	<b>6.94</b>	<b>17.33</b>	<b>3.0</b>	<b>1.550</b>	<b>3.04</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>3.258</b>	<b>.089*</b>	<b>.032*</b>	<b>.386*</b>	<b>3.35*</b>	<b>2.17</b>	<b>.321</b>	<b>.633</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>2.843</b>	<b>.207*</b>	<b>.040*</b>	<b>1.109*</b>	<b>2.91*</b>	<b>1.04</b>	<b>.339</b>	<b>.733</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.6</b>	<b>.003</b>	<b>.005</b>	<b>L.05</b>	<b>1.62</b>		<b>.056</b>	<b>.20</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.005</b>	<b>.010</b>	<b>.006</b>	<b>.065</b>	<b>2.04</b>		<b>.087</b>	<b>.25</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.540</b>	<b>.028</b>	<b>.009</b>	<b>.105</b>	<b>2.57</b>	<b>2.5</b>	<b>.234</b>	<b>.36</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>3.280</b>	<b>.092</b>	<b>.064</b>	<b>.200*</b>	<b>3.36</b>		<b>.373</b>	<b>.52</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>4.22</b>	<b>.122</b>	<b>L.1</b>	<b>.3</b>	<b>4.28</b>		<b>.803</b>	<b>1.45</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	15L	11L	06L	61L 55L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0015 LAT. 54 D 46 M 37 S LONG. 113 D 31 M 4 S

UTM 12 338050E 6072650N  
APR 06 1976 TO: A NOV 07 1978CATTLE CROSSING CREEK TRIBUTARY TO  
BAPTISTE LAKE- BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBL.	25301L MANGANESE EXTRBL.	26302L IRON EXTRBL.	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	61(0)	64(0)	64(0)	50(0)	64(11)	18(18)	26(4)	64(0)	ECHANTILLONS(IND.)
LOW	.9	19.	9.	48.	L.05	L.002	L.008	.06	MINIMUM
HIGH	92.7	103.	45.	277.	.5	L.002	.308	2.0	MAXIMUM
AVERAGE	9.93	45.0	25.5	110.	.10*		.033*	.268	MOYENNE
STD.DEV.	11.22	11.7	8.2	48.	.07*		.059*	.271	ECART-TYPE
PERCNT:10TH	5.0	35.	17.	64.	L.05	L.002	L.008	.10	10 <sup>e</sup> PERCNT
25TH	6.4	39.5	19.0	86.	.06	L.002	.010	.120	25 <sup>e</sup>
MEDIAN 50TH	8.5	45.0	24.0	99.	.08	L.0020	.016	.190	50 <sup>e</sup> MEDIANE
75TH	11.3	48.0	32.0	119.	.11	L.002	.030	.305	75 <sup>e</sup>
90TH	13.2	52.	36.	152.	.12	L.002	.065	.50	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBL.	29302L COPPER EXTRBL.	30305L ZINC EXTRBL.	42301L MOLYBDENUM EXTRBL.	
SUBM ID	CO MG/L	CU MG/L	ZN MG/L	MO MG/L	
SAMPLES(FLAGS)	18(16)	28(14)	28(5)	18(18)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	.002	.008	.032	L.001	MAXIMUM
AVERAGE	.001*	.002*	.009*		MOYENNE
STD.DEV.	.000*	.002*	.010*		ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	.002	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	.001*	.005	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.002	.013	L.001	75 <sup>e</sup>
90TH	.002	.004	.026	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07BE0016** LAT. **54 D 46M 1 S** LONG. **113 D 30M 45 S**

UTM **12 338350E 6071550 N**  
APR 06, 1976 TO/A NOV 21, 1978

OUTLET CREEK FROM BAPTISTE LAKE  
(SITE SO1) - BAPTISTE LAKE PROJECT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>95(0)</b>		<b>95(0)</b>			<b>95(0)</b>	<b>95(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	<b>150.</b>		<b>50.</b>			<b>7.2</b>	<b>64.</b>		<b>MINIMUM</b>
HIGH	<b>476.</b>		<b>168.</b>			<b>9.5</b>	<b>194.</b>		<b>MAXIMUM</b>
AVERAGE	<b>306.</b>		<b>126.4</b>				<b>148.2</b>		<b>MOYENNE</b>
STD.DEV.	59.		27.3				28.3		<b>ECART-TYPE</b>
PERCNT:10TH	220.		78.			7.7	104.		10 <sup>e</sup> PERCNT
25TH	280.		121.			7.9	143.		25 <sup>e</sup>
MEDIAN 50TH	<b>320.</b>		<b>131.</b>			<b>8.1</b>	<b>153.</b>		50 <sup>e</sup> MEDIANE
75TH	340.		142.			8.5	164.		75 <sup>e</sup>
90TH	376.		157.			9.0	179.		90 <sup>e</sup>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20105L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE DISSOLVED CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>95(0)</b>	<b>95(0)</b>	<b>95(0)</b>	<b>95(0)</b>	<b>95(0)</b>	<b>95(0)</b>	<b>95(10)</b>	<b>95(49)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	<b>1.9</b>	<b>5.</b>	<b>7.6</b>	<b>4.</b>	<b>0.</b>	<b>56.</b>	<b>L1.</b>	<b>8.</b>	<b>MINIMUM</b>
HIGH	<b>22.0</b>	<b>28.</b>	<b>51.2</b>	<b>14.</b>	<b>34.</b>	<b>224.</b>	<b>10.</b>	<b>80.</b>	<b>MAXIMUM</b>
AVERAGE	<b>4.1</b>	<b>20.0</b>	<b>32.5</b>	<b>11.0</b>	<b>4.</b>	<b>173.</b>	<b>2.5'</b>	<b>15.2'</b>	<b>MOYENNE</b>
STD.DEV.	2.1	3.9	8.9	1.7	7.	38.	1.5*	9.9*	<b>ECART-TYPE</b>
PERCNT:10TH	2.9	16.	14.4	9.	0.	113.	L1.	L10.	10 <sup>e</sup> PERCNT
25TH	3.4	18.	29.9	10.	0.	165.	2.	L10.	25 <sup>e</sup>
MEDIAN 50TH	<b>3.7</b>	<b>21.</b>	<b>34.4</b>	<b>11.</b>	<b>0.</b>	<b>182.</b>	<b>2.</b>	<b>L10.</b>	50 <sup>e</sup> MEDIANE
75TH	4.1	22.	37.8	12.	5.	197.	3.	19.	75 <sup>e</sup>
90TH	5.2	24.	41.4	13.	11.	213.	4.	25.	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L					03L	06L	CODE DE SECOURS

	07003L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL (CALCD.) N MG/L	15407L PHOSPHATE TOTAL P MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15419L PHOSPHORUS TOTAL P MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>95(0)</b>	<b>95(17)</b>	<b>49(24)</b>	<b>95(32)</b>	<b>95(17)</b>	<b>3(0)</b>	<b>95(1)</b>	<b>40(1)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	<b>.11</b>	<b>L.001</b>	<b>L.001</b>	<b>L.05</b>	<b>.14</b>	<b>.3</b>	<b>L.002</b>	<b>.03</b>	<b>MINIMUM</b>
HIGH	<b>5.06</b>	<b>.854</b>	<b>L.1</b>	<b>1.70</b>	<b>5.66</b>	<b>.9</b>	<b>.791</b>	<b>.24</b>	<b>MAXIMUM</b>
AVERAGE	<b>1.678</b>	<b>.142'</b>	<b>.028'</b>	<b>.177'</b>	<b>1.82'</b>	<b>.50</b>	<b>.042'</b>	<b>.102'</b>	<b>MOYENNE</b>
STD.DEV.	.652	.174*	.042*	.279*	.74*	.35	.088*	.057*	<b>ECART-TYPE</b>
PERCNT:10TH	.84	.003	L.001	L.05	.92		.005	.050*	10 <sup>e</sup> PERCNT
25TH	1.40	.025	.002	L.05	1.50		.010	.060	25 <sup>e</sup>
MEDIAN 50TH	<b>1.70</b>	<b>L.1</b>	<b>.004</b>	<b>.10</b>	<b>1.82</b>	<b>.3</b>	<b>.018</b>	<b>.085</b>	50 <sup>e</sup> MEDIANE
75TH	1.97	.188	.013	.19	Q2.12		.040	.130	75 <sup>e</sup>
90TH	2.21	.368	L.1	.30	2.47		.074	.205	90 <sup>e</sup>
SECONDARY CODE	15L	11L	06L	61L 55L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07BE0016 LAT. 54 D 46 M 1 S LONG. 113 D 30 M 45 S

UTM 12 338350E 6071550 N  
APR 06 1976 TO A NOV 21 1978OUTLET CREEK FROM BAPTISTE LAKE  
(SITE S01) BAPTISTE LAKE PROJECT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	23302L VANADIUM EXTRBLE.	25301L MANGANESE EXTRBLE.	26302L IRON EXTRBLE.	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	F MG/L	V MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	86(14)	94(0)	95(0)	75(0)	94(6)	18(18)	30(3)	95(15)	ECHANTILLONS(IND.)
LOW	L.5	6.	9.	10.	L.05	L.002	L.008	L.05	MINIMUM
HIGH	87.3	72.	55.	177.	.22	L.002	.063	1.50	MAXIMUM
AVERAGE	3.11*	21.6	33.3	54.	.10*		.026*	.133*	MOYENNE
STD.DEV.	9.38*	9.0	9.9	21.	.04*		.011*	.170*	ECART-TYPE
PERCNT:10TH	L.5	13.	20.	39.	.06	L.002	.012*	L.05	10 <sup>e</sup> PERCNT
25TH	.6	17.	28.	44.	.08	L.002	.020	.07	25 <sup>e</sup>
MEDIAN 50TH	1.35	21.0	34.	52.	.09	L.0020	.025	.09	50 <sup>e</sup> MEDIANE
75TH	3.1	25.	39.	59.	.11	L.002	.030	.12	75 <sup>e</sup>
90TH	5.7	30.	46.	65.	.14	L.002	.038	.28	90 <sup>e</sup>
SECONDARY CODE	02L				07L	03L	04L		CODE DE SECOURS

	27302L COBALT EXTRBLE.	29302L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	
SUBM ID	CO MG/L	CU MG/L	ZN MG/L	MO MG/L	
SAMPLES(FLAGS)	18(17)	31(19)	32(9)	18(18)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.001	L.001	MINIMUM
HIGH	.002	.010	.041	L.001	MAXIMUM
AVERAGE	.001*	.002*	.006*		MOYENNE
STD.DEV.	.000*	.002*	.009*		ECART-TYPE
PERCNT:10TH	L.001	L.001	L.001	L.001	10 <sup>e</sup> PERCNT
25TH	L.001	L.001	L.001	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001	.003	L.001	50 <sup>e</sup> MEDIANE
75TH	L.001	.002	.006	L.001	75 <sup>e</sup>
90TH	L.001	.003	.013	L.001	90 <sup>e</sup>
SECONDARY CODE		05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07BK0001** LAT. **55 D 10 M 15 S** LONG. **144 D 2 M 30 S**UTM **06 688400E 6117600 N**  
JAN 22, 1970 TO/A MAR 04, 1976

## ATHABASCA RIVER ABOVE SMITH

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	19(0)	12(5)	14(0)		26(2)	29(0)	25(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	165.	<b>Q92.</b>	<b>74.</b>		<b>2.</b>	<b>6.9</b>	<b>70.</b>		<b>MINIMUM</b>
<b>HIGH</b>	465.	259.	255.		16.	8.5	220.		<b>MAXIMUM</b>
<b>AVERAGE</b>	295.	148.*	155.3		5.2*		134.4		<b>MOYENNE</b>
<b>STD.DEV.</b>	104.	51.*	69.9		4.3*		46.6		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	185.	103.	74.		2.	7.4	77.		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	210.	109.	85.		2.	7.6	93.		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	255.	140.	143.5		3.5	7.9	124.		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	410.	165.	220.		7.	8.2	178.		<b>75<sup>e</sup></b>
<b>90TH</b>	440.	226.	249.		G15.	8.3	194.		<b>90<sup>e</sup></b>
SECONDARY CODE			04L 05L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	8(0)	19(0)	13(0)	19(0)	12(0)	12(0)	27(4)	25(2)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	1.2	6.	12.	3.	0.	90.	.0	L10.	<b>MINIMUM</b>
<b>HIGH</b>	4.0	18.	75.	17.	0.	268.	16.	86.	<b>MAXIMUM</b>
<b>AVERAGE</b>	2.2	9.9	32.15	9.6	0.	166.	5.0*	38.1*	<b>MOYENNE</b>
<b>STD.DEV.</b>	1.0	3.6	15.81	4.8	0.	67.	4.0*	20.1*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		6.	17.	4.	0.	94.	L1.	15.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	1.4	7.	22.	6.	0.	105.	1.	23.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	2.0	9.0	30.	7.	0.	147.	4.	33.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	2.7	12.	36.	15.	0.	235.	8.	50.	<b>75<sup>e</sup></b>
<b>90TH</b>		15.	44.	17.	0.	247.	10.	68.	<b>90<sup>e</sup></b>
SECONDARY CODE		02L	03L	03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS	10401L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	10571L RESIDUE FIXED TOTAL	
SUBM ID	MG L	LAS MG/L	MPN NO/DL	NO/DL	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	25(7)		29(0)	29(0)	24(1)	5(2)	18(0)	7(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0.		0.	0.	10.	L10.	158.	104.	<b>MINIMUM</b>
<b>HIGH</b>	3.		130.	1800.	50000.	66.	384.	286.	<b>MAXIMUM</b>
<b>AVERAGE</b>	1.*		12.	117.	23770.*	26.*	246.	159.	<b>MOYENNE</b>
<b>STD.DEV.</b>	1.*		26.	335.	91249.*	24.*	65.	60.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	0.		0.	0.	30.		160.		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L1.		2.	7.	160.	L10.	210.	120.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	1.		5.	33.	875.	16.	233.	152.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	2.		8.	79.	8500.	29.	294.	168.	<b>75<sup>e</sup></b>
<b>90TH</b>	3.		23.	240.	21000.		352.		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07BK0001 LAT 55 D 10 M 15 S LONG. 144 D 2 M 30 S

UTM 06 688400 E 6117600 N  
JAN 22 1970 TO: A MAR 04 1976

## ATHABASCA RIVER ABOVE SMITH

	07107L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15419L PHOSPHORUS TOTAL PHOSPHATE	15406L PHOSPHORUS TOTAL PHOSPHATE	08101L OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED F	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	O2 MG/L	F MG/L	
SAMPLES(FLAGS)	28(14)	11(11)	29(9)	1(0)	23(3)	23(3)	29(0)	15(3)	ECHANTILLONS(IND.)
LOW	L.1	L.1	L.1	.505	.0	.0	6.8	L.05	MINIMUM
HIGH	.8	L.1	1.9	.505	1.2	1.2	14.1	.25	MAXIMUM
AVERAGE	.139*		.314*		.270*	.270*	11.1	.15*	MOYENNE
STD.DEV.	.142*		.325*		.291*	.291*	2.2	.07*	ECART-TYPE
PERCNT:10TH	L.1	L.1	.1		L.1	L.1	7.9	L.05	10 <sup>e</sup> PERCNT
25TH	L.100	L.1	L.2		.1	.1	8.9	.08	25 <sup>e</sup>
MEDIAN 50TH	.100*	L.1	.2		.2	.2	12.1	.16	50 <sup>e</sup> MEDIANE
75TH	.100	L.1	.3		.3	.3	12.9	.20	75 <sup>e</sup>
90TH	.2	L.1	.5		.5	.5	13.2	.23	90 <sup>e</sup>
SECONDARY CODE	06L	06L	55L		06L			07L	CODE DE SECOURS

	24003L CHROMIUM TOTAL CR	25006L MANGANESE TOTAL MN	26002L IRON TOTAL FE	26302L IRON EXTRBL. FE	27004L COBALT TOTAL CO	28004L NICKEL TOTAL NI	29008L COPPER TOTAL CU	30006L ZINC TOTAL ZN	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	7(5)	13(0)	13(3)	6(0)	13(8)	13(3)	13(3)	10(1)	ECHANTILLONS(IND.)
LOW	L.001	.000	L.1	.1	L.001	L.001	L.001	.006	MINIMUM
HIGH	.007	.055	.8	.9	.004	.018	.009	.26	MAXIMUM
AVERAGE	.002*	.013	.392*	.333	.002*	.006*	.004*	.043*	MOYENNE
STD.DEV.	.002*	.018	.253*	.294	.001*	.006*	.002*	.077*	ECART-TYPE
PERCNT:10TH		.000	L.1		L.001	L.001	L.001	.007	10 <sup>e</sup> PERCNT
25TH	L.001	.000	.1	.2	L.001	.002	.002	L.01	25 <sup>e</sup>
MEDIAN 50TH	L.001	.009	.4	.200	L.001	.004	.004	.019	50 <sup>e</sup> MEDIANE
75TH	.002	.019	.6	.4	.004	.008	.005	.03	75 <sup>e</sup>
90TH		.045	.7		.004	.016	.008	.155	90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

	33003L ARSENIC TOTAL AS	47003L SILVER TOTAL AG	48004L CADMIUM TOTAL CD	80002L MERCURY TOTAL HG	82005L LEAD TOTAL PB	08201L OXYGEN BIOCHEM. DEMAND-BOD O2	06531L PHENOLIC MATERIAL PHENOL MG/L	06551L TANNIN AND LIGNIN T&L MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	1(0)	3(3)	14(13)	15(13)	14(3)	29(3)	29(7)	26(1)	ECHANTILLONS(IND.)
LOW	.004	L.001	L.001	.0001	L.001	.2	.000	L.1	MINIMUM
HIGH	.004	L.001	.008	.0010	.025	3.1	.022	2.7	MAXIMUM
AVERAGE			.001*	.00037*	.008*	1.2*	.004*	.76*	MOYENNE
STD.DEV.			.002*	.00028*	.006*	.7*	.005*	.49*	ECART-TYPE
PERCNT:10TH			L.001	.0001	L.001	.6	L.001	.3	10 <sup>e</sup> PERCNT
25TH			L.001	.0001	.003	.8	L.001	.5	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	.0002	.008	1.0	.003	.75	50 <sup>e</sup> MEDIANE
75TH			L.001	.0005	.010	1.4	.005	.80	75 <sup>e</sup>
90TH			L.001	.0008	.013	2.3	.010	1.1	90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L	32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07CB0001** LAT. **54 D 43 M 20 S** LONG. **113 D 17 M 10 S**UTM **12 352770E 6066060 N**

JAN 22, 1970 TO/A DEC 12, 1978

## ATHABASCA RIVER AT TOWN OF ATHABASCA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	45(0)	23(3)	40(0)	14(0)	47(1)	13(0)	47(0)	8(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>175.</b>	<b>Q84.</b>	<b>101.4</b>	<b>10.</b>	<b>1.</b>	<b>7.5</b>	<b>69.</b>	<b>-.1</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>550.</b>	<b>343.</b>	<b>238.8</b>	<b>160.</b>	<b>76.</b>	<b>8.2</b>	<b>190.</b>	<b>.5</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>307.</b>	<b>178.*</b>	<b>155.1</b>	<b>39.</b>	<b>11.6*</b>		<b>136.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>82.</b>	<b>60.*</b>	<b>36.4</b>	<b>39.</b>	<b>15.7*</b>		<b>31.5</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>195.</b>	<b>114.</b>	<b>103.1</b>	<b>10.</b>	<b>2.</b>	<b>7.7</b>	<b>90.7</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>240.</b>	<b>Q121.</b>	<b>126.0</b>	<b>20.</b>	<b>3.</b>	<b>7.7</b>	<b>106.</b>	<b>.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>300.</b>	<b>178.</b>	<b>155.0</b>	<b>25.</b>	<b>5.3</b>	<b>7.9</b>	<b>145.</b>	<b>.2</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>350.</b>	<b>231.</b>	<b>176.7</b>	<b>50.</b>	<b>11.</b>	<b>8.0</b>	<b>162.</b>	<b>.4</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>400.</b>	<b>238.</b>	<b>204.8</b>	<b>60.</b>	<b>39.</b>	<b>8.1</b>	<b>175.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			04L 05L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	47(0)	47(0)	27(0)	45(0)	33(1)	33(1)	56(6)	54(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.3</b>	<b>2.</b>	<b>17.</b>	<b>3.</b>	<b>0.</b>	<b>84.</b>	<b>.9</b>	<b>L10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>13.</b>	<b>60.</b>	<b>65.8</b>	<b>28.</b>	<b>15.</b>	<b>213.</b>	<b>75.</b>	<b>100.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.8</b>	<b>10.1</b>	<b>41.85</b>	<b>11.4</b>	<b>1.*</b>	<b>152.*</b>	<b>5.9*</b>	<b>33.9*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.8</b>	<b>8.6</b>	<b>12.43</b>	<b>4.3</b>	<b>3.*</b>	<b>37.*</b>	<b>10.5*</b>	<b>18.3*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.7</b>	<b>3.7</b>	<b>26.</b>	<b>7.</b>	<b>0.</b>	<b>110.</b>	<b>L0.</b>	<b>L10.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.</b>	<b>5.8</b>	<b>31.8</b>	<b>9.</b>	<b>0.</b>	<b>119.</b>	<b>1.5</b>	<b>20.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.6</b>	<b>9.</b>	<b>41.1</b>	<b>11.</b>	<b>0.</b>	<b>144.</b>	<b>4.0</b>	<b>32.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.1</b>	<b>12.</b>	<b>50.</b>	<b>13.3</b>	<b>0.</b>	<b>179.</b>	<b>5.5</b>	<b>46.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.4</b>	<b>15.</b>	<b>58.7</b>	<b>15.</b>	<b>5.</b>	<b>197.</b>	<b>10.</b>	<b>56.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L 03L	02L 03L	03L	03L			03L 06L	06L	CODE DE SECOURS

	14101L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	06101L CARBON DISSOLVED ORGANIC C MG/L	08101L OXYGEN DISSOLVED DO O2 MG/L	08301L OXYGEN TOTAL COD O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	16101L SULPHIDE DISSOLVED S MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	15(0)	19(0)	19(0)	14(0)	48(0)	3(0)	41(2)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>3.9</b>	<b>4.</b>	<b>11.</b>	<b>4.</b>	<b>6.6</b>	<b>15.</b>	<b>L.05</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>8.5</b>	<b>26.</b>	<b>50.</b>	<b>25.</b>	<b>14.0</b>	<b>37.</b>	<b>.32</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>5.15</b>	<b>11.2</b>	<b>27.5</b>	<b>8.4</b>	<b>10.7</b>	<b>25.</b>	<b>.12*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.26</b>	<b>7.3</b>	<b>10.2</b>	<b>5.6</b>	<b>2.0</b>	<b>11.</b>	<b>.06*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>4.0</b>	<b>4.</b>	<b>12.</b>	<b>4.</b>	<b>8.6</b>		<b>.07</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>4.3</b>	<b>6.</b>	<b>20.</b>	<b>4.</b>	<b>8.9</b>		<b>.08</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>4.9</b>	<b>8.</b>	<b>26.</b>	<b>7.0</b>	<b>10.1</b>	<b>22.</b>	<b>.10</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>5.4</b>	<b>15.</b>	<b>36.</b>	<b>11.</b>	<b>12.7</b>		<b>.15</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>7.3</b>	<b>26.</b>	<b>41.</b>	<b>12.</b>	<b>13.3</b>		<b>.20</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	02L				02F		07L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07CB0001 LAT. 54 D 43M 20 S LONG. 113 D 17M 10 S

UTM 12 352770E 6066060 N  
JAN 22 1970 TO/A DEC 12 1978

## ATHABASCA RIVER AT TOWN OF ATHABASCA

SUBM ID	07003L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL PHOSPHATE	15001L PHOSPHORUS TOTAL	
	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	
SAMPLES(FLAGS)	18(0)	31(13)	14(14)	41(18)	15(2)	26(9)	35(2)	15(6)	ECHANTILLONS(IND.)
LOW	.15	.0	L.1	L.05	.320	L.003	.0	.03	MINIMUM
HIGH	1.46	.8	L.1	3.8	1.860	.40	1.8	.31	MAXIMUM
AVERAGE	.54	.129*		.361*	.675*	.027*	.255*	.096*	MOYENNE
STD.DEV.	.28	.141*		.664*	.360*	.077*	.366*	.080*	ECART-TYPE
PERCNT:10TH	.3	.09	L.1	L.05	.438	L.003	.010	L.05	10 <sup>e</sup> PERCNT
25TH	.37	L.1	L.1	.1	.454	L.003	L.1	L.05	25 <sup>e</sup>
MEDIAN 50TH	.54	L.1	L.100	L.2	.612	.005	.13	.05	50 <sup>e</sup> MEDIANE
75TH	.59	.1	L.1	.3	.690	.022	.3	.12	75 <sup>e</sup>
90TH	.79	.2	L.1	.4	.967	.042	.58	.24	90 <sup>e</sup>
SECONDARY CODE		07L	05L	55L					CODE DE SECOURS

SUBM ID	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	40(2)					52(7)	30(7)	12(6)	ECHANTILLONS(IND.)
LOW	L.1					.000	.1	L.05	MINIMUM
HIGH	1.6					.026	3.8	.27	MAXIMUM
AVERAGE	.66*					.003*	1.4*	.08*	MOYENNE
STD.DEV.	.33*					.004*	.8*	.06*	ECART-TYPE
PERCNT:10TH	.30					L.001	.4	L.05	10 <sup>e</sup> PERCNT
25TH	.40					.001	L.0	L.05	25 <sup>e</sup>
MEDIAN 50TH	.60					.002	1.0	.05*	50 <sup>e</sup> MEDIANE
75TH	.90					.004	2.0	.09	75 <sup>e</sup>
90TH	1.10					.006	2.5	.10	90 <sup>e</sup>
SECONDARY CODE						31L 35L			CODE DE SECOURS

SUBM ID	03301L LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23302L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
	LI MG/L	B MG/L	AL MG/L	TL MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)	3(0)	4(0)	3(0)			3(3)	11(11)	17(12)	ECHANTILLONS(IND.)
LOW	.007	.04	.058			L.001	L.002	L.001	MINIMUM
HIGH	.009	.06	.41			L.001	L.002	.067	MAXIMUM
AVERAGE	.008	.05	.178					.008*	MOYENNE
STD.DEV.	.001	.01	.201					.016*	ECART-TYPE
PERCNT:10TH							L.002	L.001	10 <sup>e</sup> PERCNT
25TH		.05					L.002	L.001	25 <sup>e</sup>
MEDIAN 50TH	.008	.06	.067			L.001	L.002	L.002	50 <sup>e</sup> MEDIANE
75TH		.06					L.002	.006	75 <sup>e</sup>
90TH							L.002	L.015	90 <sup>e</sup>
SECONDARY CODE			05L						04L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07CB0001** LAT. **54 D 43M 20 S** LONG. **113 D 17M 10 S**UTM **12 352770E 6066060 N**  
DEC 03, 1975 TO/A OCT 16, 1978

## ATHABASCA RIVER AT TOWN OF ATHABASCA

SUBM ID	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED AS	34102L SELENIUM DISSOLVED SE	
	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	17(3)	3(0)	17(13)	18(7)	17(5)	15(5)	11(3)	4(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.006	.14	L.001	L.001	L.001	L.001	.0004	L.0005	<b>MINIMUM</b>
<b>HIGH</b>	.245	1.5	.006	.009	.012	.054	.0140	L.0005	<b>MAXIMUM</b>
<b>AVERAGE</b>	.049*	.61	.002*	.003*	.005*	.007*	.0023*		<b>MOYENNE</b>
<b>STD.DEV.</b>	.059*	.77	.001*	.002*	.004*	.014*	.0041*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.008		L.001	L.001	L.001	L.001	L.0005		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.017		L.001	L.001	L.001	L.001	L.0005	L.0005	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.026	.18	L.001	.002	.004	.003	.0005	L.0005	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.072		L.002	.004	.007	.006	.0027	L.0005	<b>75<sup>e</sup></b>
<b>90TH</b>	.106		.005	.007	.010	.019	.0050		<b>90<sup>e</sup></b>
SECONDARY CODE	01L		03L	03L	05L 02L				CODE DE SECOURS

SUBM ID	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48004L CADMIUM TOTAL	48302L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>	3(0)	14(14)	13(13)	13(11)	17(17)		3(1)	11(11)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.19	L.001	L.001	L.001	L.001		L.0	L.0001	<b>MINIMUM</b>
<b>HIGH</b>	.51	L.10	L.004	.001	L.001		.1	L.0001	<b>MAXIMUM</b>
<b>AVERAGE</b>	.34			.001*			.1*		<b>MOYENNE</b>
<b>STD.DEV.</b>	.16			.000*			.0*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		L.001	L.001	L.001	L.001			L.0001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.001	L.001	L.001	L.001			L.0001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.33	L.001	L.001	L.001	L.001		.1	L.0001	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		L.001	L.001	L.001	L.001			L.0001	<b>75<sup>e</sup></b>
<b>90TH</b>		L.10	L.004	.001	L.001			L.0001	<b>90<sup>e</sup></b>
SECONDARY CODE		03L	03L	05L	04L				CODE DE SECOURS

SUBM ID	82302L LEAD EXTRBL.	02011L COLOUR APPARENT	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
	PB MG/L	REL. UNITS	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	17(11)	14(0)	44(3)	44(0)	21(1)	22(4)			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.003	10.	0.	0.	40.	L.1.			<b>MINIMUM</b>
<b>HIGH</b>	.38	160.	130.	1800.	50000.	492.			<b>MAXIMUM</b>
<b>AVERAGE</b>	.027*	39.	12.*	116.	9371.*	74.*			<b>MOYENNE</b>
<b>STD.DEV.</b>	.091*	39.	22.*	283.	14465.*	109.*			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.003	10.	0.	6.	350.	1.			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.003	20.	2.	17.	750.	L.10.			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.003	25.	5.	23.	G3000.	42.			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.007	50.	13.	87.	8500.	81.			<b>75<sup>e</sup></b>
<b>90TH</b>	.014	60.	20.	240.	25000.	148.			<b>90<sup>e</sup></b>
SECONDARY CODE	04L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07CC0001 LAT. 56 D 43M 6 S LONG. 111 D 24M 11 S

UTM 12 475340E 6285890N  
FEB 09 1976 TO/A OCT 16 1979ATHABASCA RIVER 100 METERS ABOVE THE  
CONFLUENCE WITH THE HORSE RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00204L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	39(0)	40(0)	40(5)	21(0)	38(0)	23(0)	40(0)	8(0)	ECHANTILLONS(IND.)
LOW	150.	87.	70.7	5.	1.5	6.9	64.3	.1	MINIMUM
HIGH	440.	247.	203.2	80.	430.	8.7	195.0	.4	MAXIMUM
AVERAGE	265.	155.	129.2*	30.	63.1		117.6		MOYENNE
STD.DEV.	81.	46.	35.5*	16.	89.2		31.9		ECART-TYPE
PERCNT:10TH	171.	108.	91.0	15.	4.0	7.3	86.0		10 <sup>e</sup> PERCNT
25TH	193.	115.	102.7	20.	8.5	8.0	94.0	.0	25 <sup>e</sup>
MEDIAN 50TH	248.	141.	116.8	30.	26.3	8.2	109.0	.1	50 <sup>e</sup> MEDIANE
75TH	350.	195.	158.3	30.	77.0	8.3	138.9	.2	75 <sup>e</sup>
90TH	375.	231.	181.7	40.	180.0	8.5	168.5		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.) CO3	06201L BICARBONT. (CALCD.) HCO3	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	MG/L	MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	40(0)	40(0)	40(0)	40(0)	40(18)	40(18)	40(0)	40(0)	ECHANTILLONS(IND.)
LOW	.5	4.0	19.40	5.4	0.	Q78.	1.0	11.8	MINIMUM
HIGH	30.0	20.5	55.0	16.3	Q0.	238.	19.0	46.	MAXIMUM
AVERAGE	2.1	9.4	35.52	9.8	0.*	143.*	3.5	23.9	MOYENNE
STD.DEV.	4.6	4.7	9.49	3.0	0.*	39.*	3.2	9.3	ECART-TYPE
PERCNT:10TH	.7	4.5	24.95	7.0	0.	105.	1.2	13.9	10 <sup>e</sup> PERCNT
25TH	.8	5.9	27.85	7.5	0.	115.	1.5	16.3	25 <sup>e</sup>
MEDIAN 50TH	1.3	7.2	32.00	8.7	0.	133.	2.5	20.9	50 <sup>e</sup> MEDIANE
75TH	1.8	13.2	42.80	12.2	0.	169.	4.4	29.5	75 <sup>e</sup>
90TH	2.2	17.0	49.50	14.3	0.	205.	6.3	38.5	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L	
SAMPLES(FLAGS)	33(0)	32(4)	15(1)	30(3)	8(0)	32(5)	32(0)		ECHANTILLONS(IND.)
LOW	.24	.003	L.003	L.002	.24	.003	.018		MINIMUM
HIGH	3.19	.66	.024	1.40	.66	.090	.660		MAXIMUM
AVERAGE	.962	.098*	.010*	.088*	.39	.015*	.089		MOYENNE
STD.DEV.	.553	.143*	.007*	.251*	.15	.018*	.126		ECART-TYPE
PERCNT:10TH	.48	.007	.003	L.010		L.005	.024		10 <sup>e</sup> PERCNT
25TH	.59	L.010	.004	.011	.26	.006	.030		25 <sup>e</sup>
MEDIAN 50TH	.82	.069	.009	.033	.35	L.010	.045		50 <sup>e</sup> MEDIANE
75TH	1.20	.091	.012	.06	.49	.014	.100		75 <sup>e</sup>
90TH	1.50	.210	.023	.120		.037	.152		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07CC0001** LAT. **56 D 43 M 6 S** LONG. **111 D 24 M 11 S**UTM **12 475340 E 6285890 N**  
FEB 09, 1976 TO/A OCT 16, 1979ATHABASCA RIVER 100 METERS ABOVE THE  
CONFLUENCE WITH THE HORSE RIVER

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	41(0)	39(0)	35(0)	37(0)	18(0)	31(0)	35(2)	24(24)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	2.40	2.0	12.5	2.0	6.2	15.	L.05	L.0	<b>MINIMUM</b>
<b>HIGH</b>	9.0	144.	42.0	23.5	13.6	164.	.19	L.0	<b>MAXIMUM</b>
<b>AVERAGE</b>	5.19	16.1	26.9	10.6	10.3	57.	.09*		<b>MOYENNE</b>
<b>STD.DEV.</b>	1.10	21.7	8.0	4.5	1.9	41.	.03*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	4.0	7.0	17.	6.5	8.2	20.	.05	L.0	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	4.4	9.5	20.5	8.	9.0	27.	.07	L.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	5.0	11.5	25.	10.	10.0	42.	.08	L.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	5.80	15.	34.0	12.	12.3	75.	.10	L.0	<b>75<sup>e</sup></b>
<b>90TH</b>	6.30	22.5	40.0	19.0	13.	123.	.12	L.0	<b>90<sup>e</sup></b>
SECONDARY CODE	02L						07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	*CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	32(0)	39(25)	27(1)	11(10)	13(11)	36(16)	32(11)	27(8)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.08	.0	L.0	L.001	L.001	L.001	L.1	L.02	<b>MINIMUM</b>
<b>HIGH</b>	3.1	18.	34.	.019	L.01	.011	3.0	.33	<b>MAXIMUM</b>
<b>AVERAGE</b>	.77	1.9*	9.3*	.0027*	.005*	.004*	.7*	.09*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.59	3.0*	7.3*	.0054*	.004*	.003*	.7*	.07*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.2	L.0	2.5	L.001	L.001	L.001	L.1	L.02	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.40	L.0	4.	L.001	L.001	L.001	L.1	L.02	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.60	L.0	9.	L.001	.002	.001	.7	.06	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.98	1.	11.	L.001	L.01	.006	.9*	.13	<b>75<sup>e</sup></b>
<b>90TH</b>	1.3	3.5	19.	L.002	L.01	.008	1.5	.15	<b>90<sup>e</sup></b>
SECONDARY CODE					35L				CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>	22(22)	37(2)	40(0)	5(5)	28(20)	12(9)	32(16)	8(8)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.001	L.01	.03	L.01	L.001	L.001	L.003	L.015	<b>MINIMUM</b>
<b>HIGH</b>	L.005	.17	6.90	L.05	.008	L.01	5.000	L.015	<b>MAXIMUM</b>
<b>AVERAGE</b>		.06*	.76		.002*	.0028*	.160*		<b>MOYENNE</b>
<b>STD.DEV.</b>		.04*	1.28		.002*	.0034*	.883*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.001	.02	.08		L.001	L.001	L.003		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.001	.03	.13	L.05	L.001	L.0010	L.003	L.015	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.001	.05	.31	L.05	L.001	L.0010	.003*	L.015	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.005	.07	.77	L.05	.002	.0030	.005	L.015	<b>75<sup>e</sup></b>
<b>90TH</b>	L.005	.12	1.71		.006	L.01	.008		<b>90<sup>e</sup></b>
SECONDARY CODE	02L	06L	02L		02L	02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

ATHABASCA RIVER SUB-BASIN

STATION 00AT07CC0001 LAT. 56 D 43M 6 S LONG 111 D 24M 11 S

UTM 12 475340E 6285890N  
FEB 09 1976 TO A OCT 16 1979

ATHABASCA RIVER 100 METERS ABOVE THE  
CONFLUENCE WITH THE HORSE RIVER

	251041 MANGANESE EXTRBL.	263041 IRON EXTRBL.	273021 COBALT EXTRBL.	283021 NICKEL EXTRBL.	293011 COPPER EXTRBL.	303051 ZINC EXTRBL.	311041 ARSENIC DISSOLVED	341021 SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	40(1)	40(0)	39(27)	39(15)	40(3)	40(4)	33(7)	33(24)	ECHANTILLONS(IND.)
LOW	.005	.20	L.001	L.001	L.001	L.001	.0002	L.0002	MINIMUM
HIGH	.620	15.00	.009	.034	.024	.079	.0100	.0011	MAXIMUM
AVERAGE	.081*	2.29	.002*	.005*	.005*	.017*	.0015*	.0004*	MOYENNE
STD.DEV.	.117*	3.17	.002*	.007*	.005*	.019*	.0021*	.0003*	ECART-TYPE
PERCNT:10TH	.009*	.33	L.001	L.001	.001	.001*	.0004	L.0002	10 <sup>e</sup> PERCNT
25TH	.018	.45	L.001	L.002	.002	.005	L.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.035	.94	L.002	.002	.004	.010	.0008	.0002	50 <sup>e</sup> MEDIANE
75TH	.078	2.60	L.002	.005	.008	.023	.0012	L.0005	75 <sup>e</sup>
90TH	.256	6.88	.004	.015	.011	.043	.0045	.0006	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L	01L		CODE DE SECOURS

	383011 STRONTIUM EXTRBL.	423011 MOLYBDENUM EXTRBL.	473011 SILVER EXTRBL.	481011 CADMIUM DISSOLVED	483011 CADMIUM EXTRBL.	513011 ANTIMONY EXTRBL.	563011 BARIUM EXTRBL.	800111 MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)	8(0)	8(7)	11(10)	5(4)	40(36)	3(3)	8(0)	31(26)	ECHANTILLONS(IND.)
LOW	.20	L.10	.00	L.001	L.001	L.0	.1	L.0001	MINIMUM
HIGH	.38	.10	L.01	.001	.002	L.0	.1	.0006	MAXIMUM
AVERAGE	.28	.10*	.00*	.001*	.001*		.1	.0001*	MOYENNE
STD.DEV.	.06	.00*	.00*	.000*	.000*		.0	.0001*	ECART-TYPE
PERCNT:10TH			L.00		L.001			L.0001	10 <sup>e</sup> PERCNT
25TH	.24	L.10	L.00	L.001	L.001		.1	L.0001	25 <sup>e</sup>
MEDIAN 50TH	.27	L.10	L.01	L.001	L.001	L.0	.1	L.0001	50 <sup>e</sup> MEDIANE
75TH	.34	L.10	L.01	L.001	L.001		.1	.0002	75 <sup>e</sup>
90TH			L.01		.001*			L.0002	90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

	823011 LEAD EXTRBL.	020011 ODOUR THRESHOLD NUMBER	360111 COLIFORMS FECAL	360011 COLIFORMS TOTAL	369001 STD. PLATE COUNT 20 DEG.C. BACT DENS	104011 RESIDUE NONFILTR.	104511 RESIDUE FILTERABLE	105511 RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO 100ML	MPN NO 100ML	NO ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	38(23)	27(0)	16(0)	16(1)	16(2)	40(0)	37(0)	37(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	2.	370.	0.	51.	55.	MINIMUM
HIGH	.018	4.	33.	240.	58000.	1090.	251.	216.	MAXIMUM
AVERAGE	.004*	3.	14.	90.*	6301.*	111.	161.	125.	MOYENNE
STD.DEV.	.003*	1.	13.	74.*	14296.*	201.	52.	41.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	11.	500.	3.	109.	80.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	4.	28.	575.	13.	117.	93.	25 <sup>e</sup>
MEDIAN 50TH	.003	2.	9.	79.	1600.	30.	144.	114.	50 <sup>e</sup> MEDIANE
75TH	.004	4.	28.	146.	3500.	96.	215.	149.	75 <sup>e</sup>
90TH	.008	4.	33.	G210.	15000.	375.	231.	186.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07CC0002** LAT. **56 D 42 M 20 S** LONG. **111 D 23 M 40 S**

UTM **12 475860E 6284460 N**  
FEB 12, 1976 TO/À MAR 30, 1977

HORSE RIVER AT ABASANDS PARK - 2 MILES  
ABOVE CONFLUENCE WITH ATHABASCA RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	5(0)	5(0)	5(0)	5(0)	5(0)	2(0)	5(0)		<b>ECHANTILLONS(IND.)</b>
LOW	155.	94.	68.8	25.	4.7	7.3	75.5		MINIMUM
HIGH	590.	325.	244.0	140.	41.0	7.9	271.		MAXIMUM
AVERAGE	428.	241.	177.0	67.	13.8		194.7		MOYENNE
STD.DEV.	203.	109.	79.3	47.	15.3		92.2		ECART-TYPE
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	265.	152.	116.0	30.	5.9		115.		25 <sup>e</sup>
MEDIAN 50TH	550.	308.	226.4	60.	8.5	7.6	250.0		50 <sup>e</sup> MEDIANE
75TH	579.	323.	229.7	80.	8.7		262.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.) CO3	06201L BICARBONT. (CALCD.) HCO3	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	MG/L	MG/L	CL MG/L	S04 MG/L	
<b>SAMPLES(FLAGS)</b>	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	<b>ECHANTILLONS(IND.)</b>
LOW	.8	12.0	18.5	5.5	0.	92.	2.0	9.7	MINIMUM
HIGH	3.2	47.	65.9	19.3	0.	330.	15.8	40.0	MAXIMUM
AVERAGE	2.2	31.5	47.58	14.0	0.	237.	9.9	24.9	MOYENNE
STD.DEV.	.9	15.4	21.57	6.3	0.	112.	6.0	11.5	ECART-TYPE
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	2.	18.2	30.5	8.9	0.	140.	5.5	18.	25 <sup>e</sup>
MEDIAN 50TH	2.5	39.0	61.0	18.0	0.	305.	11.3	28.	50 <sup>e</sup> MEDIANE
75TH	2.5	41.5	62.0	18.2	0.	319.	15.0	28.7	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
<b>SAMPLES(FLAGS)</b>	3(0)	3(0)		3(0)	2(0)	3(0)	3(0)		<b>ECHANTILLONS(IND.)</b>
LOW	.39	.01		.04	.5	.03	.05		MINIMUM
HIGH	.81	.37		.12	.71	.04	.18		MAXIMUM
AVERAGE	.667	.203		.073	.61	.033	.110		MOYENNE
STD.DEV.	.240	.181		.042	.15	.006	.066		ECART-TYPE
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH									25 <sup>e</sup>
MEDIAN 50TH	.80	.23		.06	.61	.03	.10		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07CC0002 LAT. 56 D 42 M 20 S LONG. 111 D 23 M 40 S

UTM 12 475860E 6284460 N  
FEB 12 1976 TO/A MAR 30 1977

HORSE RIVER AT ABASANDS PARK - 2 MILES  
ABOVE CONFLUENCE WITH ATHABASCA RIVER

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	5(0)	5(0)	5(0)	4(0)	1(0)	3(0)	5(0)	1(1)	ECHANTILLONS(IND.)
LOW	2.8	2.	14.5	2.	9.5	27.	.09	L0	MINIMUM
HIGH	16.4	31.	66.	27.	9.5	87.	.23	L0	MAXIMUM
AVERAGE	11.42	19.4	40.1	16.0		61.	.15		MOYENNE
STD.DEV.	6.29	11.6	20.6	10.4		31.	.06		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	6.6	16.	26.	9.0			.10		25 <sup>e</sup>
MEDIAN 50TH	15.5	19.	41.	17.5		68.	.12		50 <sup>e</sup> MEDIANE
75TH	15.8	29.	53.	23.0			.19		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L						01L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	3(0)	4(2)	2(0)		1(1)	4(0)	3(3)	3(2)	ECHANTILLONS(IND.)
LOW	.8	L1.0	14.		L01	.001	L1	L02	MINIMUM
HIGH	2.95	9.0	22.		L01	.005	L1	.10	MAXIMUM
AVERAGE	1.72	3.2*	18.0			.004		.05*	MOYENNE
STD.DEV.	1.11	3.9*	5.7			.002		.05*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L1.0				.002			25 <sup>e</sup>
MEDIAN 50TH	1.40	1.5*	18.0			.004	L1	L02	50 <sup>e</sup> MEDIANE
75TH		5.5				.005			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE						35L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)	2(2)	4(0)	4(0)		2(2)	3(3)	3(2)	2(2)	ECHANTILLONS(IND.)
LOW	L.005	.01	.05		L.001	L.001	L.003	L.015	MINIMUM
HIGH	L.005	.36	.30		L.001	L.001	.003	L.015	MAXIMUM
AVERAGE		.22	.13				.003*		MOYENNE
STD.DEV.		.16	.12				.000*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.09	.06						25 <sup>e</sup>
MEDIAN 50TH	L.005	.25	.08		L.001	L.001	L.003	L.015	50 <sup>e</sup> MEDIANE
75TH		.34	.20						75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L	02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07CC0002** LAT. **56 D 42M 20 S** LONG. **111 D 23M 40 S**

UTM **12 475860E 6284460 N**  
FEB 12, 1976 TO/A MAR 30, 1977

HORSE RIVER AT ABASANDS PARK - 2 MILES  
ABOVE CONFLUENCE WITH ATHABASCA RIVER

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	5(0)	5(0)	5(4)	5(4)	5(0)	5(0)	3(0)	3(3)	ECHANTILLONS(IND.)
LOW	.030	.86	L.002	L.002	.001	.002	.0007	L.0005	MINIMUM
HIGH	.045	1.85	.003	.007	.021	.037	.006	L.0005	MAXIMUM
AVERAGE	.037	1.31	.002*	.003*	.007	.012	.0026		MOYENNE
STD.DEV.	.006	.39	.000*	.002*	.008	.015	.0029		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.032	1.00	L.002	L.002	.002	.002			25 <sup>e</sup>
MEDIAN 50TH	.037	1.4	L.002	L.002	.003	.004	.0012	L.0005	50 <sup>e</sup> MEDIANE
75TH	.04	1.45	L.002	L.002	.008	.015			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	01L	01L	01L	01L	05L 06L	04L 01L	01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)	2(0)	2(2)	4(4)	1(0)	5(4)	1(1)	2(2)	3(2)	ECHANTILLONS(IND.)
LOW	.17	L.10	L.00	.001	L.001	L.0	L.1	L.0001	MINIMUM
HIGH	.32	L.10	L.01	.001	.002	L.0	L.1	.0004	MAXIMUM
AVERAGE	.25				.001*			.0002*	MOYENNE
STD.DEV.	.11				.000*			.0002*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.00		L.001				25 <sup>e</sup>
MEDIAN 50TH	.25	L.10	L.00		L.001		L.0	L.0002	50 <sup>e</sup> MEDIANE
75TH			L.00		L.001				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	5(4)	3(0)	1(0)	1(0)	1(0)	5(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	450.	6.	120.	98.	MINIMUM
HIGH	.005	4.	0.	0.	450.	24.	390.	361.	MAXIMUM
AVERAGE	.003*	3.				14.	275.	208.	MOYENNE
STD.DEV.	.001*	1.				7.	131.	128.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002					11.	167.	103.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.				12.	296.	186.	50 <sup>e</sup> MEDIANE
75TH	L.004					17.	384.	313.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07CC0003 LAT. 56 D 43 M 6 S LONG. 111 D 23 M 40 S

UTM 12 475870E 6285900N  
JUL 22 1977 TO: A APR 18 1979HORSE RIVER NEAR FORT MCMURRAY 100  
METERS ABOVE CONFLUENCE WITH

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USI- CM								
SAMPLES(FLAGS)	15(0)	15(0)	15(0)	4(0)	15(0)	10(0)	15(0)		ECHANTILLONS(IND.)
LOW	106.	62.	46.4	180.	2.3	7.7	46.4		MINIMUM
HIGH	550.	345.	232.2	200.	82.0	8.9	291.2		MAXIMUM
AVERAGE	279.	175.	122.3	195.	21.8		137.3		MOYENNE
STD.DEV.	166.	101.	66.8	10.	24.0		82.8		ECART-TYPE
PERCNT:10TH	124.	70.	53.5		4.2	7.8	54.0		10 <sup>e</sup> PERCNT
25TH	140.	89.	65.5	190.	8.6	8.0	72.2		25 <sup>e</sup>
MEDIAN 50TH	214.	138.	104.9	200.	10.0	8.2	112.4		50 <sup>e</sup> MEDIANE
75TH	460.	288.	199.4	200.	27.0	8.5	222.0		75 <sup>e</sup>
90TH	550.	342.	229.3		64.5	8.8	282.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONAT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	15(0)	15(0)	15(0)	15(0)	15(10)	15(10)	15(0)	16(0)	ECHANTILLONS(IND.)
LOW	.5	6.4	12.50	3.7	0.	Q56.	2.0	8.3	MINIMUM
HIGH	2.5	40.0	61.00	19.4	19.	Q355.	38.0	41.5	MAXIMUM
AVERAGE	1.2	20.7	32.21	10.2	1.*	165.*	10.0	18.5	MOYENNE
STD.DEV.	.7	11.9	17.48	5.6	5.*	96.*	11.1	11.0	ECART-TYPE
PERCNT:10TH	.5	7.0	14.5	4.2	0.	66.	2.2	8.6	10 <sup>e</sup> PERCNT
25TH	.6	11.0	17.50	5.3	0.	Q88.	2.4	9.3	25 <sup>e</sup>
MEDIAN 50TH	1.0	17.5	28.0	8.5	Q0.	Q137.	4.5	14.5	50 <sup>e</sup> MEDIANE
75TH	1.7	35.0	52.00	16.6	Q0.	Q270.	15.0	27.4	75 <sup>e</sup>
90TH	2.3	40.0	60.50	19.0	Q0.	305.	31.0	35.0	90 <sup>e</sup>
SECONDARY CODE	03L	03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	14(0)	15(3)	8(1)	13(2)		15(0)	14(1)		ECHANTILLONS(IND.)
LOW	.43	L.003	L.003	L.002		.009	L.003		MINIMUM
HIGH	1.68	.370	.015	.07		.100	.155		MAXIMUM
AVERAGE	1.003	.111*	.008*	.039*		.031	.081*		MOYENNE
STD.DEV.	.381	.135*	.005*	.024*		.025	.044*		ECART-TYPE
PERCNT:10TH	.64	L.003		L.01		.009	.031		10 <sup>e</sup> PERCNT
25TH	.70	.005	.003	.017		.017	.054		25 <sup>e</sup>
MEDIAN 50TH	.985	.025	.009	.040		.021	.077		50 <sup>e</sup> MEDIANE
75TH	1.20	.210	.012	.06		.047	.110		75 <sup>e</sup>
90TH	1.65	.350		.070		.065	.14		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07CC0003** LAT. **56 D 43M 6 S** LONG. **111 D 23M 40 S**UTM **12 475870E 6285900 N**  
AUG 29, 1976 TO/A APR 18, 1979HORSE RIVER NEAR FORT MCMURRAY 100  
METERS ABOVE CONFLUENCE WITH

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	15(0)	16(0)	15(0)	15(0)	7(0)	14(0)	15(3)	11(11)	<b>ECHANTILLONS(IND.)</b>
LOW	3.50	11.5	9.	11.0	9.5	12.	L.05	L.0	MINIMUM
HIGH	15.50	44.0	70.0	43.0	13.4	234.	.22	L.0	MAXIMUM
AVERAGE	8.00	26.4	31.1	24.4	11.1	78.	.12*		MOYENNE
STD.DEV.	4.25	8.9	20.5	8.7	1.5	52.	.06*		ECART-TYPE
PERCNT:10TH	3.90	13.0	10.5	12.0		30.	L.05	L.0	10 <sup>e</sup> PERCNT
25TH	4.7	19.8	15.0	19.0	9.5	53.	.05	L.0	25 <sup>e</sup>
MEDIAN 50TH	6.10	26.3	22.0	25.0	11.	73.	.12	L.0	50 <sup>e</sup> MEDIANE
75TH	12.80	31.8	54.0	27.5	12.6	98.	.17	L.0	75 <sup>e</sup>
90TH	14.50	41.0	66.5	39.5		106.	.19	L.0	90 <sup>e</sup>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	15(0)	16(3)	11(0)			14(10)	15(1)	15(0)	<b>ECHANTILLONS(IND.)</b>
LOW	.3	L.0	4.			L.001	L.1	.03	MINIMUM
HIGH	4.3	54.	48.			.004	2.9	.23	MAXIMUM
AVERAGE	1.96	5.6*	24.0			.001*	1.0*	.15	MOYENNE
STD.DEV.	.92	13.0*	14.2			.001*	.7*	.06	ECART-TYPE
PERCNT:10TH	1.0	L.0	7.			L.001	.3	.05	10 <sup>e</sup> PERCNT
25TH	1.2	1.5	11.			L.001	.3	.13	25 <sup>e</sup>
MEDIAN 50TH	2.2	2.3	26.			L.001	.8	.14	50 <sup>e</sup> MEDIANE
75TH	2.4	3.0	36.			.001	1.3	.20	75 <sup>e</sup>
90TH	2.50	5.	37.			.001	1.6	.21	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		15(1)	14(0)	3(3)	14(12)		15(7)		<b>ECHANTILLONS(IND.)</b>
LOW		L.05	.04	L.01	L.001		L.003		MINIMUM
HIGH		.30	1.09	L.05	.003		.013		MAXIMUM
AVERAGE		.21*	.28		.001*		.006*		MOYENNE
STD.DEV.		.06*	.29		.001*		.004*		ECART-TYPE
PERCNT:10TH		.13	.05		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.18	.10		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.22	.20	L.05	L.001		.003		50 <sup>e</sup> MEDIANE
75TH		.24	.28		L.001		.010		75 <sup>e</sup>
90TH		.29	.69		.002		.012		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07CC0003 LAT 56° 43' N LONG 111° 23' W

UTM 12 475870 6285900  
JUL 22 1977 TO/A APR 18 1979HORSE RIVER NEAR FORT MCMURRAY 100  
METERS ABOVE CONFLUENCE WITH

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM	MN	FE	CO	NI	CU	ZN	AS	SE	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	14(0)	14(0)	4(4)	14(7)	14(3)	14(0)	14(0)	14(13)	ECHANTILLONS(IND.)
LOW	.017	.85	L.002	L.001	L.001	.002	.0004	L.0002	MINIMUM
HIGH	.430	3.55	L.002	.004	.005	.073	.0020	.0005	MAXIMUM
AVERAGE	.080	1.80		.002*	.002*	.011	.0010	.0002*	MOYENNE
STD.DEV.	.106	.92		.001*	.001*	.018	.0006	.0001*	ECART-TYPE
PERCNT:10TH	.017	1.05		L.001	L.001	.002	.0004	L.0002	10 <sup>e</sup> PERCNT
25TH	.027	1.20	L.002	.001	.001	.003	.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.050	1.53	L.002	L.002	.002	.007	.0008	L.0002	50 <sup>e</sup> MEDIANE
75TH	.078	1.75	L.002	.002	.003	.009	.0014	L.0002	75 <sup>e</sup>
90TH	.134	3.50		.003	.003	.015	.0019	L.0002	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM	SR	MO	AG	CD	CD	SB	BA	HG	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)					4(4)			15(14)	ECHANTILLONS(IND.)
LOW					L.001			L.0001	MINIMUM
HIGH					L.001			.0003	MAXIMUM
AVERAGE								.0001*	MOYENNE
STD.DEV.								.0001*	ECART-TYPE
PERCNT:10TH								L.0001	10 <sup>e</sup> PERCNT
25TH					L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH					L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH					L.001			L.0001	75 <sup>e</sup>
90TH								L.0001	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM	PB		MPN	MPN					
ID	MG/L	TON	NO/100ML	NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	14(12)	15(0)	12(0)	12(0)	12(0)	15(0)	15(0)	15(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	100.	1.	75.	37.	MINIMUM
HIGH	.005	4.	79.	130.	5700.	174.	363.	246.	MAXIMUM
AVERAGE	.002*	2.	19.	35.	1087.	35.	181.	123.	MOYENNE
STD.DEV.	.001*	1.	26.	46.	1530.	48.	106.	73.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	0.	280.	6.	81.	59.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	1.	9.	330.	9.	92.	65.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	6.	17.	470.	14.	141.	90.	50 <sup>e</sup> MEDIANE
75TH	L.002	2.	33.	40.	1200.	59.	303.	219.	75 <sup>e</sup>
90TH	.002	4.	49.	130.	1700.	102.	330.	224.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07CD0001** LAT. **56 D 42 M 18 S** LONG. **111 D 21 M 20 S**UTM **12 478230E 6284390 N**  
FEB 12, 1976 TO/A OCT 16, 1979HANGINGSTONE CREEK - AT HWY 63  
-AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	39(0)	39(0)	39(3)	22(0)	37(0)	20(0)	39(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	125.	83.	51.0	15.	2.2	7.3	51.2		<b>MINIMUM</b>
<b>HIGH</b>	960.	579.	344.3	300.	720.	8.6	406.6		<b>MAXIMUM</b>
<b>AVERAGE</b>	351.	207.	134.9*	104.	84.8		143.3		<b>MOYENNE</b>
<b>STD.DEV.</b>	221.	130.	79.3*	69.	171.9		96.4		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	155.	89.	63.0	30.	4.8	7.5	61.0		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	171.	101.	73.4	50.	9.0	7.9	66.2		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	261.	151.	99.9	103.	14.0	8.1	106.0		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	450.	258.	Q167.4	140.	51.0	8.3	184.5		<b>75<sup>e</sup></b>
<b>90TH</b>	650.	398.	263.9	180.	246.0	8.4	301.0		<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	39(0)	39(0)	39(0)	39(0)	39(16)	39(16)	39(0)	39(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.5	9.5	13.50	4.2	0.	Q62.	5.2	8.8	<b>MINIMUM</b>
<b>HIGH</b>	5.3	93.0	95.0	27.5	14.	496.	82.0	71.0	<b>MAXIMUM</b>
<b>AVERAGE</b>	1.8	30.3	36.00	10.9	1.*	174.*	19.2	23.6	<b>MOYENNE</b>
<b>STD.DEV.</b>	1.2	21.1	21.44	6.3	2.*	116.*	14.7	14.7	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.7	12.0	17.0	5.	0.	74.	7.5	9.5	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.9	13.5	19.9	5.9	0.	81.	8.0	12.3	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	1.4	22.7	27.00	8.5	0.	129.	16.0	17.5	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	2.7	43.0	43.2	15.0	Q0.	Q225.	26.5	31.0	<b>75<sup>e</sup></b>
<b>90TH</b>	3.7	65.0	72.7	20.0	Q0.	358.	36.0	46.0	<b>90<sup>e</sup></b>

SECONDARY CODE

02L 03L

02L 03L

03L

03L

CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	34(0)	35(5)	17(3)	33(1)	4(0)	35(0)	35(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.54	L.003	L.003	L.002	.44	.01	.030		<b>MINIMUM</b>
<b>HIGH</b>	9.15	.660	.020	.460	.97	.123	.41		<b>MAXIMUM</b>
<b>AVERAGE</b>	1.249	.124*	.009*	.099*	.68	.035	.109		<b>MOYENNE</b>
<b>STD.DEV.</b>	1.452	.181*	.006*	.094*	.22	.028	.080		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.60	.004	L.003	.020		.01	.04		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.66	L.01	.004	.043	.52	.017	.055		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.925	.038	.009	.07	.65	.026	.092		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.28	.152	.013	.14	.84	.042	.133		<b>75<sup>e</sup></b>
<b>90TH</b>	1.65	.45	.017	.20		.082	.185		<b>90<sup>e</sup></b>

SECONDARY CODE

15L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07CD0001 LAT 56 D 42 M 18 S LONG. 111 D 21 M 20 S

UTM 12 478230E 6284390 N  
FEB 12 1976 TO: A OCT 16 1979HANGINGSTONE CREEK - AT HWY 63  
-AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	06101L CARBON DISSOLVED ORGANIC C	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SI02 MG/L	MG/L	MG/L	MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	39(0)	38(0)	34(0)	38(0)	21(0)	34(0)	34(2)	21(21)	ECHANTILLONS(IND.)
LOW	3.90	7.5	9.5	4.	6.7	15.	L.05	L.0	MINIMUM
HIGH	21.2	39.0	72.	36.0	14.8	189.	.32	L.0	MAXIMUM
AVERAGE	9.40	21.7	31.0	19.6	9.8	64.	.14*		MOYENNE
STD.DEV.	4.67	8.0	20.5	8.0	1.9	33.	.07*		ECART-TYPE
PERCNT:10TH	4.90	9.5	11.5	8.	7.3	25.	.07	L.0	10 <sup>e</sup> PERCNT
25TH	6.0	15.0	14.	13.0	8.6	42.	.09	L.0	25 <sup>e</sup>
MEDIAN 50TH	7.60	22.5	22.8	20.5	9.5	64.	.14	L.0	50 <sup>e</sup> MEDIANE
75TH	13.00	25.	41.	24.0	10.8	82.	.17	L.0	75 <sup>e</sup>
90TH	15.8	34.	66.	31.0	12.4	97.	.27	L.0	90 <sup>e</sup>
SECONDARY CODE							07L 01L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	28(0)	36(12)	19(0)	4(3)	7(7)	34(17)	29(5)	28(10)	ECHANTILLONS(IND.)
LOW	.2	.0	3.	L.001	L.001	L.001	L.1	L.02	MINIMUM
HIGH	3.1	54.	37.	.001	L.01	.020	2.2	.27	MAXIMUM
AVERAGE	1.51	3.3*	20.1	.0010*		.004*	.8*	.12*	MOYENNE
STD.DEV.	.63	8.8*	7.7	.0000*		.005*	.7*	.09*	ECART-TYPE
PERCNT:10TH	.9	L.0	10.			L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	.95	L1.0	15.	L.0010	L.001	L.001	.4	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.55	1.3	21.	L.0010	L.01	.001*	.7	.15	50 <sup>e</sup> MEDIANE
75TH	1.95	2.0	24.	.0010*	L.01	.004	1.1	.19	75 <sup>e</sup>
90TH	2.2	4.	30.			.010	2.1	.24	90 <sup>e</sup>
SECONDARY CODE						33L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	BE MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	4(4)	35(0)	39(0)	7(6)	33(21)	6(4)	33(20)	3(3)	ECHANTILLONS(IND.)
LOW	L.005	.04	.03	L.01	L.001	L.001	L.003	L.015	MINIMUM
HIGH	L.005	.40	10.0	.05	.008	.053	.036	L.015	MAXIMUM
AVERAGE		.18	.91	.033*	.002*	.0097*	.005*		MOYENNE
STD.DEV.		.08	2.06	.021*	.002*	.0212*	.006*		ECART-TYPE
PERCNT:10TH		.08	.05		L.001		L.003		10 <sup>e</sup> PERCNT
25TH	L.005	.13	.09	L.01	L.001	L.001	L.003		25 <sup>e</sup>
MEDIAN 50TH	L.005	.19	.21	L.05	L.001	L.0010	L.003	L.015	50 <sup>e</sup> MEDIANE
75TH	L.005	.23	.48	L.05	.002	.001	.005		75 <sup>e</sup>
90TH		.28	2.10		.004		.010		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07CD0001 LAT. 56 D 42 M 18 S LONG. 111 D 21 M 20 S

UTM 12 478230 E 6284390 N  
FEB 12, 1976 TO/A OCT 16, 1979

HANGINGSTONE CREEK - AT HWY 63  
-AOSERP

	25304L MANGANESE EXTRBLE. MN MG/L	26304L IRON EXTRBLE. FE MG/L	27302L COBALT EXTRBLE. CO MG/L	28302L NICKEL EXTRBLE. NI MG/L	29301L COPPER EXTRBL. CU MG/L	30305L ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	39(0)	39(0)	22(18)	39(12)	39(6)	38(1)	30(8)	31(26)	ECHANTILLONS(IND.)
LOW	.024	.40	L.001	L.001	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	1.4	49.	.033	.072	.048	.20	.0090	.0005	MAXIMUM
AVERAGE	.131	3.70	.004*	.007*	.006*	.022*	.0013*	.0003*	MOYENNE
STD.DEV.	.225	8.12	.007*	.012*	.009*	.035*	.0017*	.0001*	ECART-TYPE
PERCNT:10TH	.035	.78	L.002	L.001	L.001	.001	L.0005	L.0002	10 <sup>e</sup> PERCNT
25TH	.050	1.05	L.002	L.002	.001	.004	.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.077	1.60	L.002	.002	.003	.010	.0009	.0002	50 <sup>e</sup> MEDIANE
75TH	.110	2.13	L.002	.006	.006	.026	.0011	L.0005	75 <sup>e</sup>
90TH	.230	8.45	.005	.013	.022	.053	.0028	L.0005	90 <sup>e</sup>
SECONDARY CODE	01L	01L	01L	01L	05L 06L	04L 01L	01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)	4(0)	4(4)	11(11)	3(3)	22(21)	1(1)	4(2)	35(28)	ECHANTILLONS(IND.)
LOW	.22	L.10	L.00	L.001	L.001	L.0	L.1	L.0001	MINIMUM
HIGH	.43	L.10	L.01	L.001	.003	L.0	.4	.0017	MAXIMUM
AVERAGE	.31				.001*		.1*	.0002*	MOYENNE
STD.DEV.	.10				.000*		.2*	.0003*	ECART-TYPE
PERCNT:10TH			L.00		L.001			L.0001	10 <sup>e</sup> PERCNT
25TH	.23	L.10	L.00		L.001		L.0	L.0001	25 <sup>e</sup>
MEDIAN 50TH	.30	L.10	L.01	L.001	L.001		.0*	L.0001	50 <sup>e</sup> MEDIANE
75TH	.40	L.10	L.01		L.001		.2	.0001	75 <sup>e</sup>
90TH			L.01		L.001			.0004	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	38(29)	34(0)	19(4)	19(7)	18(2)	38(0)	37(0)	36(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	5.	11.	220.	0.	88.	58.	MINIMUM
HIGH	.052	4.	G9999.	G9999.	51000.	656.	665.	513.	MAXIMUM
AVERAGE	.005*	2.	1062.*	1398.*	10211.*	94.	228.	177.	MOYENNE
STD.DEV.	.009*	1.	2295.*	2332.*	13260.*	162.	141.	120.	ECART-TYPE
PERCNT:10TH	L.002	2.	13.	70.	260.	4.	102.	73.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	70.	130.	600.	8.	126.	91.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	G150.	270.	8900.	22.	173.	136.	50 <sup>e</sup> MEDIANE
75TH	.003	2.	1600.	G2400.	13000.	91.	284.	233.	75 <sup>e</sup>
90TH	.013	4.	G2400.	G2400.	35000.	371.	396.	365.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07CD0002 LAT. 56 D 42 M 10 S LONG. 111 D 20 M 38 S

UTM 12 478950E 6284140 N  
MAY 16 1976 TO/A JUN 09 1977

SALINE CREEK - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL UNITS	JTU	PH UNITS	MG/L	PH UNITS	
SAMPLES(FLAGS)	8(0)	8(0)	8(1)	7(0)	7(0)	2(0)	8(0)	1(0)	ECHANTILLONS(IND.)
LOW	149.	85.	55.5	50.	3.5	7.6	62.8	-.2	MINIMUM
HIGH	720.	445.	354.9	170.	280.	7.7	348.0	-.2	MAXIMUM
AVERAGE	261.	155.	118.7*	114.	99.6		123.1		MOYENNE
STD.DEV.	193.	121.	99.8*	37.	106.9		95.0		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	158.	91.	64.2	100.	8.5		71.0		25 <sup>e</sup>
MEDIAN 50TH	183.	108.	79.8	120.	46.	7.7	89.7		50 <sup>e</sup> MEDIANE
75TH	270.	157.	125.4	130.	200.		126.3		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
SAMPLES(FLAGS)	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	.2	11.5	14.0	5.0	0.	77.	1.5	3.8	MINIMUM
HIGH	2.0	36.5	91.0	31.0	0.	424.	10.1	65.5	MAXIMUM
AVERAGE	1.0	17.3	30.22	10.5	0.	150.	6.4	15.8	MOYENNE
STD.DEV.	.7	8.2	25.62	8.7	0.	116.	2.9	20.3	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.5	12.5	16.25	5.8	0.	87.	4.2	7.2	25 <sup>e</sup>
MEDIAN 50TH	.9	14.7	20.50	7.0	0.	109.	6.9	9.5	50 <sup>e</sup> MEDIANE
75TH	1.5	18.1	31.65	11.2	0.	154.	8.6	11.9	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO P04	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)	7(0)	7(5)		7(0)	1(0)	7(5)	7(0)		ECHANTILLONS(IND.)
LOW	.68	L.01		.05	.56	L.01	.03		MINIMUM
HIGH	1.50	.01		.25	.56	.22	.33		MAXIMUM
AVERAGE	1.110	.010*		.130		.044*	.179		MOYENNE
STD.DEV.	.330	.000*		.076		.078*	.134		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.81	L.01		.05		L.01	.03		25 <sup>e</sup>
MEDIAN 50TH	.98	L.01		.10		L.01	.23		50 <sup>e</sup> MEDIANE
75TH	1.45	.01		.20		.04	.33		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07CD0002** LAT. **56 D 42 M 10 S** LONG. **111 D 20 M 38 S**

UTM **12 478950E 6284140 N**  
MAY 16, 1976 TO/À JUN 09, 1977

SALINE CREEK - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	06101L CARBON DISSOLVED ORGANIC C	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	MG/L	MG/L	MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	8(0)	8(0)	8(0)	7(0)	3(0)	7(0)	8(0)	4(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>2.0</b>	<b>14.</b>	<b>11.</b>	<b>14.</b>	<b>9.8</b>	<b>59.</b>	<b>.07</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>11.4</b>	<b>42.</b>	<b>67.</b>	<b>38.</b>	<b>12.4</b>	<b>180.</b>	<b>.16</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>5.79</b>	<b>29.8</b>	<b>23.3</b>	<b>26.6</b>	<b>10.8</b>	<b>93.</b>	<b>.10</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>3.78</b>	<b>10.0</b>	<b>18.5</b>	<b>9.2</b>	<b>1.4</b>	<b>44.</b>	<b>.03</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.55</b>	<b>22.3</b>	<b>13.0</b>	<b>17.</b>		<b>66.</b>	<b>.08</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>4.90</b>	<b>31.5</b>	<b>16.5</b>	<b>25.5</b>	<b>10.2</b>	<b>72.</b>	<b>.09</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>9.00</b>	<b>37.5</b>	<b>24.5</b>	<b>37.</b>		<b>124.</b>	<b>.11</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	7(0)	8(1)	1(0)	3(3)	4(4)	8(0)	7(3)	7(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.65</b>	<b>L1.0</b>	<b>27.</b>	<b>L.001</b>	<b>L.01</b>	<b>.002</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.50</b>	<b>7.0</b>	<b>27.</b>	<b>L.001</b>	<b>L.01</b>	<b>.016</b>	<b>.8</b>	<b>L.02</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.81</b>	<b>3.7*</b>				<b>.006</b>	<b>.4*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.71</b>	<b>2.3*</b>				<b>.005</b>	<b>.3*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.00</b>	<b>2.0</b>			<b>L.010</b>	<b>.002</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.00</b>	<b>3.3</b>		<b>L.001</b>	<b>L.010</b>	<b>.004</b>	<b>.2</b>	<b>L.02</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.45</b>	<b>5.5</b>			<b>L.010</b>	<b>.009</b>	<b>.7</b>	<b>L.02</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE						35L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	BE MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	1(1)	8(0)	8(0)		6(3)	2(1)	7(3)	1(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.05</b>	<b>.03</b>	<b>.04</b>		<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.015</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.05</b>	<b>.30</b>	<b>7.60</b>		<b>.006</b>	<b>.004</b>	<b>.012</b>	<b>L.015</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.15</b>	<b>2.23</b>		<b>.002*</b>	<b>.0025*</b>	<b>.006*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.08</b>	<b>2.45</b>		<b>.002*</b>	<b>.0021*</b>	<b>.003*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.09</b>	<b>.35</b>		<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.14</b>	<b>1.92</b>		<b>.001*</b>	<b>.0025*</b>	<b>.006</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.19</b>	<b>2.83</b>		<b>.004</b>		<b>.006</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE			02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07CD0002 LAT. 56 D 42M 10 S LONG. 111 D 20M 38 S

UTM 12 478950E 6284140 N  
MAY 16 1976 TO/A JUN 09 1977

SALINE CREEK - AOSERP

	26304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	8(0)	8(0)	8(6)	8(5)	8(0)	8(0)	5(4)	6(4)	ECHANTILLONS(IND.)
LOW	.045	.74	L.002	L.002	.002	.006	L.0005	L.0005	MINIMUM
HIGH	.190	7.60	.003	.012	.016	.061	.003	.0009	MAXIMUM
AVERAGE	.094	3.63	.002*	.005*	.008	.025	.0011*	.0006*	MOYENNE
STD.DEV.	.054	2.62	.000*	.004*	.005	.018	.0011*	.0002*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.050	1.08	L.002	L.002	.004	.011	L.0005	L.0005	25 <sup>e</sup>
MEDIAN 50TH	.077	3.80	L.002	L.002	.007	.022	L.0005	L.0005	50 <sup>e</sup> MEDIANE
75TH	.130	5.47	.002*	.008	.011	.034	L.001	.0006	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)	1(0)	1(1)	7(7)	1(1)	8(8)		1(1)	7(6)	ECHANTILLONS(IND.)
LOW	.12	L.10	L.00	L.001	L.001		L.1	L.0001	MINIMUM
HIGH	.12	L.10	L.01	L.001	L.001		L.1	.0002	MAXIMUM
AVERAGE								.0001*	MOYENNE
STD.DEV.								.0001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	8(4)	7(0)				8(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	L.002	2.				6.	95.	61.	MINIMUM
HIGH	.008	4.				454.	523.	328.	MAXIMUM
AVERAGE	.003*	3.				158.	185.	123.	MOYENNE
STD.DEV.	.002*	1.				150.	143.	90.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.				43.	104.	66.	25 <sup>e</sup>
MEDIAN 50TH	.002*	2.				132.	126.	88.	50 <sup>e</sup> MEDIANE
75TH	.005	4.				230.	200.	145.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	12L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07CD0003** LAT. **56 D 41M 53 S** LONG. **111 D 19M 2 S**

UTM **12 480580E 6283600 N**  
FEB 09, 1976 TO/À OCT 16, 1979

CLEARWATER RIVER APPROXIMATELY 2000  
METERS ABOVE WATERWAYS AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL CACO3	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>35(0)</b>	<b>35(0)</b>	<b>35(4)</b>	<b>18(0)</b>	<b>33(0)</b>	<b>19(0)</b>	<b>35(0)</b>	<b>5(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	129.	72.	43.9	15.	1.1	6.6	45.0	-1.1	MINIMUM
HIGH	309.	161.	Q109.1	180.	450.	8.5	94.9	-.2	MAXIMUM
AVERAGE	210.	115.	63.0*	47.	38.1		60.9		MOYENNE
STD.DEV.	53.	26.	13.1*	37.	83.5		10.3		ECART-TYPE
PERCNT:10TH	150.	86.	49.7	20.	3.1	7.6	50.2		10 <sup>e</sup> PERCNT
25TH	168.	95.	55.3	30.	5.4	7.8	53.0	-.9	25 <sup>e</sup>
MEDIAN 50TH	198.	107.	61.3	40.	10.5	8.0	60.0	-.9	50 <sup>e</sup> MEDIANE
75TH	255.	139.	65.9	50.	31.5	8.2	67.0	-.4	75 <sup>e</sup>
90TH	300.	155.	75.5	80.	64.	8.4	72.1		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>35(0)</b>	<b>35(0)</b>	<b>35(0)</b>	<b>35(0)</b>	<b>35(17)</b>	<b>35(17)</b>	<b>35(0)</b>	<b>35(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	.5	10.0	11.5	3.7	0.	55.	9.8	.1	MINIMUM
HIGH	1.8	40.0	30.4	9.4	Q0.	116.	51.5	19.	MAXIMUM
AVERAGE	.9	21.7	16.27	5.4	0.*	74.*	27.4	7.1	MOYENNE
STD.DEV.	.3	7.8	3.55	1.1	0.*	13.*	11.4	3.8	ECART-TYPE
PERCNT:10TH	.6	11.0	12.5	4.4	0.	Q61.	12.2	4.0	10 <sup>e</sup> PERCNT
25TH	.7	16.2	14.50	4.8	0.	65.	19.0	5.8	25 <sup>e</sup>
MEDIAN 50TH	.9	19.5	15.5	5.2	0.	73.	24.0	6.5	50 <sup>e</sup> MEDIANE
75TH	1.1	28.0	16.80	6.0	Q0.	Q81.	38.3	8.0	75 <sup>e</sup>
90TH	1.4	32.0	19.50	6.5	Q0.	Q88.	44.0	11.2	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>30(0)</b>	<b>30(2)</b>	<b>14(2)</b>	<b>28(2)</b>	<b>5(0)</b>	<b>30(2)</b>	<b>30(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	.32	L.003	L.003	L.002	.26	L.005	.025		MINIMUM
HIGH	2.61	1.20	.016	.73	.96	.073	.330		MAXIMUM
AVERAGE	.891	.110*	.008*	.076*	.47	.022*	.084		MOYENNE
STD.DEV.	.585	.218*	.004*	.135*	.29	.017*	.079		ECART-TYPE
PERCNT:10TH	.440	.005	L.003	L.01		.007	.030		10 <sup>e</sup> PERCNT
25TH	.50	.01	.003	.020	.3	.01	.040		25 <sup>e</sup>
MEDIAN 50TH	.730	.070	.008	.047	.35	.018	.061		50 <sup>e</sup> MEDIANE
75TH	1.00	.110	.010	.080	.5	.028	.085		75 <sup>e</sup>
90TH	1.785	.190	.012	.14		.049	.195		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07CD0003 LAT 56 D 41 M 53 S LONG 111 D 19 M 2 S

UTM 12 480580 6283600  
FEB 09 1976 TO/A OCT 16 1979CLEARWATER RIVER APPROXIMATELY 2000  
METERS ABOVE WATERWAYS AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	35(0)	35(0)	31(0)	32(0)	15(0)	30(0)	31(6)	21(21)	ECHANTILLONS(IND.)
LOW	3.30	1.0	8.	.5	6.3	9.	L.05	L.0	MINIMUM
HIGH	112.	83.	22.	28.0	13.9	115.	.9	L.0	MAXIMUM
AVERAGE	11.94	14.1	13.5	10.8	10.1	45.	.11*		MOYENNE
STD.DEV.	17.58	13.3	3.2	5.2	2.5	31.	.15*		ECART-TYPE
PERCNT:10TH	6.50	6.	9.0	6.0	6.9	13.	L.05	L.0	10 <sup>e</sup> PERCNT
25TH	7.2	7.5	11.0	7.3	7.9	20.	.05	L.0	25 <sup>e</sup>
MEDIAN 50TH	8.60	12.	14.0	10.0	10.2	32.	.08	L.0	50 <sup>e</sup> MEDIANE
75TH	11.50	15.5	16.0	12.0	12.2	64.	.10	L.0	75 <sup>e</sup>
90TH	12.9	18.5	17.0	17.0	13.6	95.	.12	L.0	90 <sup>e</sup>
SECONDARY CODE	02L						07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	25(0)	35(25)	21(1)	4(4)	6(6)	31(16)	29(9)	25(7)	ECHANTILLONS(IND.)
LOW	.40	0.	L.0	L.001	L.002	L.001	L.1	L.02	MINIMUM
HIGH	2.0	16.0	26.	L.001	L.01	.011	3.0	.24	MAXIMUM
AVERAGE	.80	2.5*	9.6*			.003*	.7*	.10*	MOYENNE
STD.DEV.	.46	3.7*	6.4*			.003*	.8*	.07*	ECART-TYPE
PERCNT:10TH	.4	L1.0	2.			L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	.5	L1.0	4.	L.0010	L.01	L.001	L.1	.02	25 <sup>e</sup>
MEDIAN 50TH	.6	L1.0	10.	L.0010	L.010	L.001	.5	.09	50 <sup>e</sup> MEDIANE
75TH	.80	1.	11.	L.0010	L.01	.004	1.1	.15	75 <sup>e</sup>
90TH	1.8	9.5	17.			.007	2.1	.21	90 <sup>e</sup>
SECONDARY CODE						35L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	MG/L	CR MG/L	
SAMPLES(FLAGS)	6(6)	18(2)	34(0)	5(5)	26(23)	9(5)	25(16)	5(4)	ECHANTILLONS(IND.)
LOW	L.005	L.01	.02	L.01	L.001	L.001	L.003	.004	MINIMUM
HIGH	L.005	.38	4.3	L.05	.006	.03	.008	L.015	MAXIMUM
AVERAGE		.10*	.40		.001*	.0064*	.003*	.013*	MOYENNE
STD.DEV.		.09*	.82		.001*	.0096*	.001*	.005*	ECART-TYPE
PERCNT:10TH		L.01	.04		L.001		L.003		10 <sup>e</sup> PERCNT
25TH	L.005	.02	.08	L.05	L.001	L.001	L.003	L.015	25 <sup>e</sup>
MEDIAN 50TH	L.005	.10	.16	L.05	L.001	.002	L.003	L.015	50 <sup>e</sup> MEDIANE
75TH	L.005	.13	.35	L.05	L.001	L.01	.003	L.015	75 <sup>e</sup>
90TH		.21	.68		.003		.004		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07CD0003** LAT. **56 D 41M 53 S** LONG. **111 D 19M 2 S**UTM **12 480580E 6283600 N**  
FEB 09, 1976 TO/À OCT 16, 1979CLEARWATER RIVER APPROXIMATELY 2000  
METERS ABOVE WATERWAYS AOSERP

SUBM ID	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	ECHANTILLONS(IND.)
	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	35(0)	35(0)	18(13)	34(18)	35(12)	34(5)	23(9)	25(22)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.017	.44	L.002	L.001	L.001	L.001	L.0002	L.0002	<b>MINIMUM</b>
<b>HIGH</b>	.69	24.	.019	.042	.032	.087	.0021	.035	<b>MAXIMUM</b>
<b>AVERAGE</b>	.080	2.16	.003*	.005*	.004*	.012*	.0007*	.0018*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.117	4.09	.004*	.008*	.006*	.018*	.0006*	.0070*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.021	.69	L.002	L.001	L.001	L.001	L.0002	L.0002	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.030	.74	L.002	L.001	L.001	.001	.0002	L.0002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.048	1.0	L.002	L.002	.002	.004	.0005	L.0002	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.07	1.80	.002	.003	.005	.016	L.001	L.0005	<b>75<sup>e</sup></b>
<b>90TH</b>	.142	3.6	.009	.013	.011	.031	.0018	L.0005	<b>90<sup>e</sup></b>
SECONDARY CODE			01L	01L	06L 05L	04L	01L		CODE DE SECOURS

SUBM ID	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	ECHANTILLONS(IND.)
	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>	6(0)	6(6)	7(7)	4(1)	17(12)	1(1)	6(3)	31(22)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.10	L.1	L.00	L.001	L.001	L.0	L.1	L.0001	<b>MINIMUM</b>
<b>HIGH</b>	.25	L.10	L.01	.002	.005	L.0	.2	.06	<b>MAXIMUM</b>
<b>AVERAGE</b>	.18			.002*	.001*		.1*	.0021*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.07			.001*	.001*		.1*	.0107*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					L.001			L.0001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.1	L.10	L.01	.001*	L.001		L.1	L.0001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.19	L.10	L.01	.002	L.001		.1*	L.0001	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.23	L.10	L.01	.002	.001		.2	.0002	<b>75<sup>e</sup></b>
<b>90TH</b>					.002			.0006	<b>90<sup>e</sup></b>
SECONDARY CODE				02L	02L				CODE DE SECOURS

SUBM ID	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTRABLE	10551L RESIDUE FIXED FILTRABLE	ECHANTILLONS(IND.)
	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	BACT.DENS. NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	34(24)	25(0)	18(0)	19(0)	18(3)	35(0)	34(0)	34(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.002	2.	0.	0.	L.10.	2.	77.	53.	<b>MINIMUM</b>
<b>HIGH</b>	.036	8.	78.	350.	69000.	1751.	223.	171.	<b>MAXIMUM</b>
<b>AVERAGE</b>	.004*	3.	10.	68.	5334.*	93.	140.	105.	<b>MOYENNE</b>
<b>STD.DEV.</b>	.007*	1.	20.	96.	15958.*	296.	36.	31.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.002	2.	0.	2.	30.	4.	100.	73.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.002	2.	0.	5.	220.	6.	112.	79.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.002	2.	2.	25.	1320.	23.	133.	101.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.003	2.	7.	112.	3100.	56.	165.	130.	<b>75<sup>e</sup></b>
<b>90TH</b>	.005	4.	33.	276.	4500.	132.	198.	149.	<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07CE0001 LAT. 56 D 27 M 1 S LONG. 111 D 3 M 45 S

UTM 12 496150 E 6256000 N  
MAY 10 1978 TO/A OCT 16 1979SURMONT CREEK - ABOUT 2 MILES  
ABOVE GREGOIRE LAKE - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	18(0)	18(0)	18(0)	1(0)	18(0)	11(0)	18(0)		ECHANTILLONS(IND.)
LOW	55.	36.	32.2	130.	2.1	7.3	23.8		MINIMUM
HIGH	190.	104.	95.4	130.	23.6	8.9	77.4		MAXIMUM
AVERAGE	110.	65.	57.8		6.3		48.9		MOYENNE
STD.DEV.	39.	22.	21.0		5.1		16.8		ECART-TYPE
PERCNT:10TH	65.	37.	32.8		2.3	7.6	25.0		10 <sup>e</sup> PERCNT
25TH	75.	45.	38.3		3.3	7.8	33.5		25 <sup>e</sup>
MEDIAN 50TH	110.	63.	54.1		4.3	8.3	46.5		50 <sup>e</sup> MEDIANE
75TH	145.	84.	75.5		7.5	8.7	62.0		75 <sup>e</sup>
90TH	165.	98.	90.4		10.0	8.9	74.2		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
SAMPLES(FLAGS)	18(0)	18(0)	18(0)	18(0)	18(17)	18(17)	18(0)	18(0)	ECHANTILLONS(IND.)
LOW	.3	.4	9.0	2.3	0.	Q29.	.7	3.5	MINIMUM
HIGH	2.0	8.5	26.00	7.4	Q0.	Q94.	6.2	19.5	MAXIMUM
AVERAGE	.8	2.4	16.01	4.3	0.*	59.*	1.4	10.9	MOYENNE
STD.DEV.	.5	1.8	5.81	1.6	0.*	20.*	1.3	4.4	ECART-TYPE
PERCNT:10TH	.3	1.0	9.10	2.5	Q0.	Q30.	.7	5.5	10 <sup>e</sup> PERCNT
25TH	.5	1.5	10.90	2.7	Q0.	Q41.	.8	7.7	25 <sup>e</sup>
MEDIAN 50TH	.6	1.8	15.00	4.0	0.	57.	1.0	10.5	50 <sup>e</sup> MEDIANE
75TH	.9	2.9	21.50	5.4	Q0.	Q75.	1.2	14.0	75 <sup>e</sup>
90TH	1.6	4.0	25.00	6.8	Q0.	Q90.	3.0	18.0	90 <sup>e</sup>
SECONDARY CODE	03L	03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)	18(0)	17(0)	13(0)	17(1)		17(0)	18(0)		ECHANTILLONS(IND.)
LOW	.24	.008	.003	L.002		.010	.017		MINIMUM
HIGH	1.64	.560	.020	.083		.090	.130		MAXIMUM
AVERAGE	.892	.121	.009	.033*		.034	.061		MOYENNE
STD.DEV.	.435	.149	.005	.019*		.022	.031		ECART-TYPE
PERCNT:10TH	.40	.013	.003	.009		.011	.019		10 <sup>e</sup> PERCNT
25TH	.60	.028	.006	.027		.014	.043		25 <sup>e</sup>
MEDIAN 50TH	.770	.042	.007	.033		.031	.051		50 <sup>e</sup> MEDIANE
75TH	1.24	.180	.010	.039		.046	.080		75 <sup>e</sup>
90TH	1.63	.300	.015	.055		.056	.115		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07CE0001** LAT. **56 D 27M 1 S** LONG. **111 D 3M 45 S**

UTM **12 496150E 6256000 N**  
MAY 10, 1978 TO/A OCT 16, 1979

SURMONT CREEK - ABOUT 2 MILES  
ABOVE GREGOIRE LAKE- AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	18(0)	17(0)	13(0)	17(0)	10(0)	18(0)	13(5)	17(17)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>3.70</b>	<b>4.5</b>	<b>6.0</b>	<b>4.5</b>	<b>6.8</b>	<b>35.</b>	<b>L.05</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>17.50</b>	<b>33.0</b>	<b>18.5</b>	<b>33.0</b>	<b>12.4</b>	<b>170.</b>	<b>.12</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>6.76</b>	<b>18.1</b>	<b>11.5</b>	<b>17.4</b>	<b>9.2</b>	<b>75.</b>	<b>.07*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	3.17	5.8	4.4	5.7	1.8	42.	.03*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	4.1	13.5	6.0	13.0	6.8	38.	L.05	L.0	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	4.70	16.0	8.5	14.5	8.3	42.	L.05	L.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>6.50</b>	<b>17.5</b>	<b>10.5</b>	<b>17.5</b>	<b>9.2</b>	<b>57.</b>	<b>.05</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	7.60	20.5	15.0	19.5	10.4	113.	.08	L.0	<b>75<sup>e</sup></b>
<b>90TH</b>	9.30	23.0	17.5	22.5	11.8	145.	.11	L.0	<b>90<sup>e</sup></b>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
<b>SAMPLES(FLAGS)</b>	18(0)	18(1)	17(0)	17(13)	4(3)	17(10)	17(0)	13(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.2</b>	<b>L.1.0</b>	<b>21.</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>.2</b>	<b>.06</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>3.5</b>	<b>6.</b>	<b>45.</b>	<b>.008</b>	<b>.002</b>	<b>.012</b>	<b>3.4</b>	<b>.26</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.19</b>	<b>2.4*</b>	<b>30.4</b>	<b>.0016*</b>	<b>.001*</b>	<b>.002*</b>	<b>1.0</b>	<b>.17</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	.67	1.3*	6.2	.0017*	.001*	.003*	.9	.06	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	1.5	1.	21.	L.001		L.001	.2	.08	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	1.6	1.	27.	L.001	L.001	L.001	.5	.13	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.10</b>	<b>2.0</b>	<b>30.</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>.8</b>	<b>.20</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	2.8	3.	34.	L.001	.001*	.001	1.1	.21	<b>75<sup>e</sup></b>
<b>90TH</b>	3.1	4.	37.	.003		.002	2.3	.24	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>	17(17)	18(0)	18(0)	1(1)	17(15)		18(9)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>	<b>.02</b>	<b>.04</b>	<b>L.01</b>	<b>L.001</b>		<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>L.001</b>	<b>.17</b>	<b>.38</b>	<b>L.01</b>	<b>.004</b>		<b>.095</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.09</b>	<b>.14</b>		<b>.001*</b>		<b>.010*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		.04	.09		.001*		.021*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.001	.02	.07		L.001		L.003		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.001	.06	.08		L.001		L.003		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.001</b>	<b>.09</b>	<b>.10</b>		<b>L.001</b>		<b>.003*</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.001	.12	.18		L.001		.008		<b>75<sup>e</sup></b>
<b>90TH</b>	L.001	.14	.35		.001		.010		<b>90<sup>e</sup></b>
SECONDARY CODE	02L	06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07CE0001 LAT. 56 D 27M 1 S LONG. 111 D 3M 45 S

UTM 12 496150 E 6256000 N  
MAY 10 1978 TO/A OCT 16 1979SURMONT CREEK - ABOUT 2 MILES  
ABOVE GREGOIRE LAKE - AOSERP

	25304L MANGANESE EXTRBLE. MN MG/L	26304L IRON EXTRBLE. FE MG/L	27302L COBALT EXTRBLE. CO MG/L	28302L NICKEL EXTRBLE. NI MG/L	29301L COPPER EXTRBLE. CU MG/L	30305L ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	18(0)	17(0)	18(15)	18(11)	18(9)	17(1)	18(1)	18(15)	ECHANTILLONS(IND.)
LOW	.048	.52	L.001	L.001	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	.130	2.50	.003	.011	.005	.033	.0052	.0006	MAXIMUM
AVERAGE	.081	1.31	.001*	.002*	.002*	.009*	.0011*	.0002*	MOYENNE
STD.DEV.	.023	.51	.001*	.002*	.001*	.011*	.0011*	.0001*	ECART-TYPE
PERCNT:10TH	.056	.84	L.001	L.001	L.001	.001	.0003	L.0002	10 <sup>e</sup> PERCNT
25TH	.064	.93	L.001	L.001	L.001	.003	.0006	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.074	1.13	L.001	L.001	.001*	.004	.0009	L.0002	50 <sup>e</sup> MEDIANE
75TH	.095	1.60	L.001	.002	.002	.007	.0014	L.0002	75 <sup>e</sup>
90TH	.120	2.00	.002	.003	.004	.032	.0019	.0004	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)					17(17)			18(16)	ECHANTILLONS(IND.)
LOW					L.001			L.0001	MINIMUM
HIGH					L.001			.0015	MAXIMUM
AVERAGE								.0002*	MOYENNE
STD.DEV.								.0003*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH					L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH					L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH					L.001			L.0001	75 <sup>e</sup>
90TH					L.001			.0005	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTRABLE MG/L	10551L RESIDUE FIXED FILTRABLE MG/L	
SAMPLES(FLAGS)	18(14)	13(0)	15(0)	17(0)	16(1)	18(1)	18(0)	17(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	220.	L0.	36.	32.	MINIMUM
HIGH	.004	8.	79.	540.	30000.	40.	114.	83.	MAXIMUM
AVERAGE	.002*	3.	16.	88.	4181.*	9.*	73.	54.	MOYENNE
STD.DEV.	.001*	2.	23.	150.	7759.*	11.*	23.	16.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	0.	260.	2.	50.	34.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	5.	435.	3.	53.	39.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	5.	23.	940.	5.	73.	50.	50 <sup>e</sup> MEDIANE
75TH	L.002	2.	28.	88.	3450.	12.	90.	68.	75 <sup>e</sup>
90TH	.003	4.	44.	350.	13000.	26.	108.	77.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07CE0002** LAT. **56 D 39 M 30 S** LONG. **111 D 2 M 30 S**

UTM **12 497500E 6279100 N**  
JUN 13, 1978 TO/À MAR 13, 1979

CHRISTINA RIVER - ABOVE CONFLUENCE  
WITH CLEARWATER RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>		<b>10(0)</b>	<b>5(0)</b>	<b>10(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>190.</b>	<b>89.</b>	<b>67.2</b>		<b>6.0</b>	<b>7.7</b>	<b>66.3</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>850.</b>	<b>476.</b>	<b>177.4</b>		<b>61.0</b>	<b>8.5</b>	<b>191.4</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>463.</b>	<b>262.</b>	<b>125.4</b>		<b>23.0</b>		<b>133.4</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>257.</b>	<b>140.</b>	<b>41.4</b>		<b>22.3</b>		<b>43.3</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>195.</b>	<b>108.</b>	<b>73.4</b>		<b>6.5</b>		<b>76.8</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>200.</b>	<b>135.</b>	<b>85.0</b>		<b>7.8</b>	<b>7.9</b>	<b>99.1</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>422.</b>	<b>247.</b>	<b>127.0</b>		<b>10.8</b>	<b>8.1</b>	<b>138.3</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>680.</b>	<b>384.</b>	<b>165.4</b>		<b>39.5</b>	<b>8.3</b>	<b>169.2</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>850.</b>	<b>468.</b>	<b>176.4</b>		<b>61.0</b>		<b>190.8</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(9)</b>	<b>10(9)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.5</b>	<b>11.0</b>	<b>18.00</b>	<b>5.4</b>	<b>Q0.</b>	<b>Q81.</b>	<b>9.3</b>	<b>3.8</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.9</b>	<b>110.0</b>	<b>46.00</b>	<b>15.2</b>	<b>6.</b>	<b>Q233.</b>	<b>165.0</b>	<b>24.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.1</b>	<b>51.5</b>	<b>32.81</b>	<b>10.5</b>	<b>1.*</b>	<b>161.*</b>	<b>72.6</b>	<b>13.3</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.5</b>	<b>34.4</b>	<b>10.72</b>	<b>3.6</b>	<b>2.*</b>	<b>51.*</b>	<b>58.8</b>	<b>7.1</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.5</b>	<b>15.5</b>	<b>19.60</b>	<b>6.0</b>	<b>0.</b>	<b>93.</b>	<b>11.1</b>	<b>4.6</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.7</b>	<b>24.0</b>	<b>22.00</b>	<b>7.3</b>	<b>Q0.</b>	<b>Q121.</b>	<b>21.5</b>	<b>6.4</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.0</b>	<b>45.2</b>	<b>32.80</b>	<b>10.9</b>	<b>0.</b>	<b>168.</b>	<b>59.8</b>	<b>13.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.4</b>	<b>79.0</b>	<b>43.80</b>	<b>13.6</b>	<b>Q0.</b>	<b>Q206.</b>	<b>125.0</b>	<b>20.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.7</b>	<b>105.0</b>	<b>46.00</b>	<b>14.9</b>	<b>3.</b>	<b>226.</b>	<b>162.5</b>	<b>22.9</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L	03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>10(1)</b>	<b>5(1)</b>	<b>9(1)</b>		<b>10(0)</b>	<b>10(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.54</b>	<b>L.003</b>	<b>L.003</b>	<b>L.002</b>		<b>.007</b>	<b>.030</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>2.17</b>	<b>.550</b>	<b>.014</b>	<b>.176</b>		<b>.064</b>	<b>.170</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.178</b>	<b>.169*</b>	<b>.008*</b>	<b>.072*</b>		<b>.030</b>	<b>.088</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.467</b>	<b>.200*</b>	<b>.005*</b>	<b>.060*</b>		<b>.016</b>	<b>.044</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.655</b>	<b>.003*</b>				<b>.012</b>	<b>.042</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.86</b>	<b>.007</b>	<b>.003</b>	<b>.030</b>		<b>.020</b>	<b>.064</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.140</b>	<b>.094</b>	<b>.010</b>	<b>.059</b>		<b>.029</b>	<b>.072</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.30</b>	<b>.330</b>	<b>.011</b>	<b>.100</b>		<b>.038</b>	<b>.130</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.925</b>	<b>.490</b>				<b>.052</b>	<b>.156</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07CE0002 LAT. 56 D 39 M 30 S LONG. 111 D 2 M 30 S

UTM 12 497500E 6279100 N  
JUN 13 1978 TO/A MAR 13 1979CHRISTINA RIVER - ABOVE CONFLUENCE  
WITH CLEARWATER RIVER

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	10(0)	5(0)	10(0)	10(3)	ECHANTILLONS(IND.)
LOW	4.30	15.5	13.5	15.5	9.3	30.	L.05	MINIMUM
HIGH	11.50	33.5	46.0	33.0	13.3	305.	.18	MAXIMUM
AVERAGE	7.31	22.0	30.1	20.5	11.0	97.	.10*	MOYENNE
STD.DEV.	2.50	5.7	11.6	5.1	1.8	87.	.05*	ECART-TYPE
PERCNT:10TH	4.60	15.8	17.0	15.8		31.	L.05	10 <sup>e</sup> PERCNT
25TH	5.30	17.0	20.5	17.0	9.5	33.	L.05	25 <sup>e</sup>
MEDIAN 50TH	6.80	20.5	27.5	19.8	10.5	53.	.10	50 <sup>e</sup> MEDIANE
75TH	9.00	26.5	43.0	21.0	12.4	137.	.14	75 <sup>e</sup>
90TH	11.10	30.0	46.0	28.5		228.	.17	90 <sup>e</sup>
SECONDARY CODE							07L	CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L
SAMPLES(FLAGS)	10(0)	10(8)	10(0)			10(6)	10(0)	10(0)
LOW	.3	L.0.	6.			L.001	.3	.09
HIGH	2.3	2.	30.			.010	1.5	.42
AVERAGE	.91	1.1*	12.9			.002*	.9	.23
STD.DEV.	.56	.3*	7.5			.003*	.3	.10
PERCNT:10TH	.30	L1.0	6.0			L.001	.4	.11
25TH	.7	L0.	7.			L.001	.7	.18
MEDIAN 50TH	.85	L1.0	10.5			L.001	.8	.22
75TH	1.0	L0.	17.			.003	.9	.28
90TH	1.70	1.5	24.0			.008	1.4	.40
SECONDARY CODE								CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXA VALENT	24302L CHROMIUM EXTRBL.
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L
SAMPLES(FLAGS)		9(0)	10(0)		10(8)		10(4)	
LOW		.08	.03		L.001		L.003	
HIGH		.16	12.10		.010		.018	
AVERAGE		.13	1.37		.002*		.006*	
STD.DEV.		.03	3.77		.003*		.005*	
PERCNT:10TH			.04		L.001		L.003	
25TH		.10	.05		L.001		L.003	
MEDIAN 50TH		.14	.15		L.001		.005	
75TH		.15	.32		L.001		.006	
90TH			6.26		.006		.012	
SECONDARY CODE		.06L			.02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07CE0002** LAT. **56 D 39 M 30 S** LONG. **111 D 2 M 30 S**UTM **12 497500E 6279100 N**  
JUN 13, 1978 TO/À MAR 13, 1979CHRISTINA RIVER - ABOVE CONFLUENCE  
WITH CLEARWATER RIVER

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>10(0)</b>		<b>10(5)</b>	<b>10(4)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(9)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.026</b>	<b>.86</b>		<b>L.001</b>	<b>L.001</b>	<b>.001</b>	<b>.0002</b>	<b>L.0001</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.315</b>	<b>10.60</b>		<b>.016</b>	<b>.006</b>	<b>.033</b>	<b>.0015</b>	<b>L.1</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.091</b>	<b>2.27</b>		<b>.003*</b>	<b>.002*</b>	<b>.008</b>	<b>.0008</b>	<b>.0102*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.091</b>	<b>2.95</b>		<b>.005*</b>	<b>.002*</b>	<b>.010</b>	<b>.0005</b>	<b>.0316*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.029</b>	<b>.98</b>		<b>L.001</b>	<b>L.001</b>	<b>.002</b>	<b>.0003</b>	<b>L.0001</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.035</b>	<b>1.10</b>		<b>L.001</b>	<b>L.001</b>	<b>.002</b>	<b>.0004</b>	<b>L.0002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.065</b>	<b>1.35</b>		<b>.001*</b>	<b>.002</b>	<b>.003</b>	<b>.0008</b>	<b>L.0002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.080</b>	<b>1.50</b>		<b>.002</b>	<b>.003</b>	<b>.009</b>	<b>.0011</b>	<b>L.0002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.248</b>	<b>6.40</b>		<b>.009</b>	<b>.006</b>	<b>.025</b>	<b>.0015</b>	<b>.0501*</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>								<b>10(9)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>								<b>L.0001</b>	<b>MINIMUM</b>
<b>HIGH</b>								<b>.0003</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>								<b>.0001*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>								<b>.0001*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>L.0001</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>								<b>L.0001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>								<b>L.0001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>								<b>L.0001</b>	<b>75<sup>e</sup></b>
<b>90TH</b>								<b>.0002*</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	BACT.DENS. NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>10(9)</b>	<b>10(0)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.002</b>	<b>2.</b>	<b>0.</b>	<b>0.</b>	<b>20.</b>	<b>4.</b>	<b>125.</b>	<b>91.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.016</b>	<b>4.</b>	<b>33.</b>	<b>79.</b>	<b>2600.</b>	<b>144.</b>	<b>561.</b>	<b>390.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.003*</b>	<b>2.</b>	<b>11.</b>	<b>17.</b>	<b>609.</b>	<b>42.</b>	<b>299.</b>	<b>208.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.004*</b>	<b>1.</b>	<b>10.</b>	<b>26.</b>	<b>787.</b>	<b>53.</b>	<b>166.</b>	<b>108.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.002</b>	<b>2.</b>			<b>45.</b>	<b>5.</b>	<b>128.</b>	<b>91.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.002</b>	<b>2.</b>	<b>3.</b>	<b>3.</b>	<b>130.</b>	<b>6.</b>	<b>132.</b>	<b>96.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.002</b>	<b>2.</b>	<b>10.</b>	<b>10.</b>	<b>255.</b>	<b>16.</b>	<b>265.</b>	<b>186.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.002</b>	<b>2.</b>	<b>13.</b>	<b>13.</b>	<b>900.</b>	<b>60.</b>	<b>448.</b>	<b>310.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.009*</b>	<b>4.</b>			<b>1820.</b>	<b>136.</b>	<b>536.</b>	<b>358.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0001 LAT. 57 D 0 M 17 S LONG. 111 D 24 M 53 S

UTM 12 474820E 6317770N  
FEB 12 1976 TO/A OCT 15 1979STEEPBANK RIVER - 4.5 MILES UPSTREAM  
FROM THE MOUTH - AT WSC GAUGE - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE CM								
SAMPLES(FLAGS)	37(0)	37(0)	37(2)	22(0)	36(0)	20(0)	37(0)	3(0)	ECHANTILLONS(IND.)
LOW	89.	53.	41.5	10.	1.1	7.2	43.8	-.9	MINIMUM
HIGH	625.	389.	272.8	120.	114.	8.8	362.0	.7	MAXIMUM
AVERAGE	307.	182.	139.5*	71.	12.0		167.5		MOYENNE
STD.DEV.	190.	115.	78.4*	39.	19.8		109.5		ECART-TYPE
PERCNT:10TH	110.	70.	60.0	20.	1.5	7.5	59.9		10 <sup>e</sup> PERCNT
25TH	165.	87.	78.4	25.	3.1	7.6	81.1		25 <sup>e</sup>
MEDIAN 50TH	230.	132.	110.7	83.	6.3	8.0	123.2	-.5	50 <sup>e</sup> MEDIANE
75TH	530.	325.	241.3	110.	11.0	8.3	299.		75 <sup>e</sup>
90TH	600.	347.	252.1	110.	33.0	8.6	329.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	37(0)	37(0)	37(0)	37(0)	37(14)	37(14)	37(0)	37(0)	ECHANTILLONS(IND.)
LOW	.2	4.4	11.00	3.4	0.	Q53.	1.0	1.9	MINIMUM
HIGH	2.4	57.5	70.0	25.0	33.	441.	7.8	16.0	MAXIMUM
AVERAGE	1.1	20.8	36.33	11.8	1.*	202.*	3.6	7.9	MOYENNE
STD.DEV.	.8	16.9	20.13	6.9	5.*	131.*	2.3	3.7	ECART-TYPE
PERCNT:10TH	.3	4.9	15.80	4.9	0.	Q73.	1.4	3.8	10 <sup>e</sup> PERCNT
25TH	.5	7.5	21.	6.4	0.	Q99.	1.8	5.4	25 <sup>e</sup>
MEDIAN 50TH	1.0	13.0	29.5	9.0	0.	150.	2.4	6.8	50 <sup>e</sup> MEDIANE
75TH	1.9	37.0	62.00	20.0	Q0.	356.	5.7	9.4	75 <sup>e</sup>
90TH	2.3	45.5	65.5	21.5	Q0.	401.	7.0	14.0	90 <sup>e</sup>
SECONDARY CODE	03L 02L	02L 03L	03L				03L 06L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	34(0)	34(6)	16(2)	33(1)	3(0)	34(1)	34(0)		ECHANTILLONS(IND.)
LOW	.36	L.003	L.003	L.002	.44	L.001	.016		MINIMUM
HIGH	2.28	.406	.015	.17	.67	.15	.22		MAXIMUM
AVERAGE	.982	.106*	.007*	.055*	.57	.026*	.063		MOYENNE
STD.DEV.	.430	.132*	.005*	.044*	.12	.028*	.049		ECART-TYPE
PERCNT:10TH	.56	.003	L.003	.01		.006	.026		10 <sup>e</sup> PERCNT
25TH	.72	L.01	.004	.02		.009	.035		25 <sup>e</sup>
MEDIAN 50TH	.890	.038	.005	.04	.6	.018	.048		50 <sup>e</sup> MEDIANE
75TH	1.14	.17	.012	.077		.036	.062		75 <sup>e</sup>
90TH	1.45	.360	.015	.12		.053	.14		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0001** LAT. **57 D 0M 17 S** LONG. **111 D 24M 53 S**

UTM **12 474820E 6317770 N**  
FEB 12, 1976 TO/A OCT 15, 1979

STEEP BANK RIVER - 4.5 MILES UPSTREAM  
FROM THE MOUTH - AT WSC GAUGE - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	37(0)	37(0)	33(0)	36(0)	14(0)	34(0)	32(4)	18(18)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.30</b>	<b>6.5</b>	<b>7.</b>	<b>6.5</b>	<b>2.2</b>	<b>15.</b>	<b>L.05</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>14.50</b>	<b>33.</b>	<b>78.0</b>	<b>28.0</b>	<b>17.5</b>	<b>138.</b>	<b>.32</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>7.89</b>	<b>20.2</b>	<b>36.0</b>	<b>18.6</b>	<b>9.6</b>	<b>55.</b>	<b>.13*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>4.45</b>	<b>6.2</b>	<b>23.5</b>	<b>5.5</b>	<b>3.7</b>	<b>27.</b>	<b>.08*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>3.1</b>	<b>11.0</b>	<b>12.5</b>	<b>11.0</b>	<b>6.9</b>	<b>25.</b>	<b>L.05</b>	<b>L.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>3.9</b>	<b>17.0</b>	<b>16.0</b>	<b>14.8</b>	<b>8.4</b>	<b>37.</b>	<b>.07</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>6.20</b>	<b>20.0</b>	<b>28.0</b>	<b>19.0</b>	<b>9.2</b>	<b>53.</b>	<b>.10</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>13.3</b>	<b>25.</b>	<b>53.</b>	<b>23.0</b>	<b>10.4</b>	<b>70.</b>	<b>.18</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>13.7</b>	<b>27.0</b>	<b>74.0</b>	<b>25.</b>	<b>16.0</b>	<b>85.</b>	<b>.23</b>	<b>L.0</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L						07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	29(0)	37(22)	18(0)	3(2)	7(6)	32(24)	31(11)	29(9)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.2</b>	<b>L1.0</b>	<b>3.</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>.0</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.8</b>	<b>8.0</b>	<b>32.</b>	<b>.007</b>	<b>L.01</b>	<b>.010</b>	<b>2.4</b>	<b>.29</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.27</b>	<b>1.9*</b>	<b>20.9</b>	<b>.0030*</b>	<b>.005*</b>	<b>.002*</b>	<b>.6*</b>	<b>.11*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.61</b>	<b>1.7*</b>	<b>8.4</b>	<b>.0035*</b>	<b>.005*</b>	<b>.002*</b>	<b>.6*</b>	<b>.09*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.50</b>	<b>L1.0</b>	<b>8.</b>			<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.9</b>	<b>L1.0</b>	<b>14.</b>		<b>.001</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.20</b>	<b>L1.0</b>	<b>24.0</b>	<b>L.001</b>	<b>L.002</b>	<b>L.001</b>	<b>.3</b>	<b>.10</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.6</b>	<b>2.</b>	<b>26.</b>		<b>L.01</b>	<b>.001</b>	<b>.9</b>	<b>.18</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.0</b>	<b>4.</b>	<b>31.</b>			<b>L.005</b>	<b>1.4</b>	<b>.26</b>	<b>90<sup>e</sup></b>
SECONDARY CODE						35L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	4(4)	22(0)	37(2)	7(7)	32(26)	5(3)	30(22)	3(3)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>	<b>.06</b>	<b>L.01</b>	<b>L.01</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.015</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.005</b>	<b>.48</b>	<b>5.60</b>	<b>L.05</b>	<b>.003</b>	<b>.002</b>	<b>.010</b>	<b>L.015</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.22</b>	<b>.32*</b>		<b>.001*</b>	<b>.0012*</b>	<b>.004*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.14</b>	<b>.91*</b>		<b>.000*</b>	<b>.0004*</b>	<b>.002*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.08</b>	<b>.02</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.003</b>	<b>.12</b>	<b>.04</b>	<b>L.01</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.005</b>	<b>.18</b>	<b>.08</b>	<b>L.05</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.015</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.005</b>	<b>.39</b>	<b>.22</b>	<b>L.05</b>	<b>L.001</b>	<b>.001</b>	<b>.003</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.47</b>	<b>.60</b>		<b>.002</b>		<b>.007</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	02L	06L	02L		02L	02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0001 LAT. 57 D 0M 17 S LONG. 111 D 24 M 53 S

UTM 12 474820E 6317770 N  
FEB 12 1976 TO/A OCT 15 1979STEEPBANK RIVER - 4.5 MILES UPSTREAM  
FROM THE MOUTH - AT WSC GAUGE - AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	37(0)	37(0)	23(20)	37(32)	37(8)	37(3)	28(13)	29(25)	ECHANTILLONS(IND.)
LOW	.013	.43	L.001	L.001	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	.500	3.70	.006	.005	.030	.058	.7000	.0014	MAXIMUM
AVERAGE	.071	1.12	.002*	.002*	.005*	.011*	.0257*	.0003*	MOYENNE
STD.DEV.	.105	.67	.001*	.001*	.008*	.013*	.1321*	.0002*	ECART-TYPE
PERCNT:10TH	.021	.6	L.001	L.001	L.001	.003	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.027	.68	L.002	L.001	.001	.004	.0004	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.036	.86	L.002	L.002	.002	.006	L.0005	L.0002	50 <sup>e</sup> MEDIANE
75TH	.05	1.3	L.002	L.002	.004	.012	L.0010	L.0005	75 <sup>e</sup>
90TH	.23	2.15	.002	.004	.019	.032	.0024	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L	01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)	3(0)	3(3)	9(9)	2(2)	23(22)	1(1)	3(2)	33(28)	ECHANTILLONS(IND.)
LOW	.09	L.10	L.00	L.001	L.001	L.0	L.1	L.0001	MINIMUM
HIGH	.25	L.10	L.01	L.001	.001	L.0	.1	.0006	MAXIMUM
AVERAGE	.15				.001*		.0*	.0001*	MOYENNE
STD.DEV.	.09				.000*		.0*	.0001*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH	.10	L.1	L.01	L.001	L.001		L.1	L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH					L.001			L.0002	90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	37(28)	29(0)	19(1)	19(2)	19(0)	37(0)	36(0)	35(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	50.	1.	0.	40.	MINIMUM
HIGH	.028	16.	130.	240.	31000.	171.	413.	364.	MAXIMUM
AVERAGE	.003*	3.	20.*	52.*	3006.	22.	185.	153.	MOYENNE
STD.DEV.	.004*	3.	29.*	72.*	7040.	39.	120.	106.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	0.	50.	2.	69.	48.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	L2.	5.	170.	5.	100.	72.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	13.	23.	700.	8.	139.	106.	50 <sup>e</sup> MEDIANE
75TH	.003	2.	23.	50.	3000.	20.	304.	229.	75 <sup>e</sup>
90TH	.004	8.	49.	G210.	7500.	72.	379.	339.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0002** LAT. **56 D 54 M 50 S** LONG. **111 D 27 M 16 S**UTM **12 472330E 6307670 N**  
MAY 17, 1976 TO/A OCT 16, 1979POPLAR CREEK - 13 MILES NORTH OF FORT  
MCMURRAY VIA HWY 63 - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	33(0)	33(0)	33(3)	17(0)	32(0)	16(0)	33(0)	3(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	216.	134.	85.4	55.	2.8	7.6	91.4	-.4	<b>MINIMUM</b>
<b>HIGH</b>	2700.	1510.	329.4	140.	78.0	8.7	393.8	.1	<b>MAXIMUM</b>
<b>AVERAGE</b>	466.	303.	134.8*	89.	12.7		161.8		<b>MOYENNE</b>
<b>STD.DEV.</b>	441.	295.	55.2*	25.	16.1		62.6		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	240.	158.	97.4	60.	3.7	7.8	116.9		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	300.	175.	107.5	70.	5.2	7.9	127.0		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	350.	204.	119.8	80.	7.4	8.2	145.0	.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	400.	244.	132.6	100.	11.9	8.3	167.4		<b>75<sup>e</sup></b>
<b>90TH</b>	760.	524.	207.1	130.	22.0	8.5	233.6		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	33(0)	33(0)	33(0)	33(0)	33(16)	33(16)	33(0)	33(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.1	21.8	22.00	7.4	0.	Q111.	5.5	4.4	<b>MINIMUM</b>
<b>HIGH</b>	3.8	500.0	70.60	37.2	3.	Q480.	600.0	62.0	<b>MAXIMUM</b>
<b>AVERAGE</b>	2.1	70.3	33.30	12.5	0.*	197.*	71.5	15.9	<b>MOYENNE</b>
<b>STD.DEV.</b>	.9	101.0	11.32	6.7	0.*	76.*	133.5	12.3	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	1.1	25.5	25.0	8.7	0.	Q142.	12.5	6.6	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	1.4	30.0	27.50	9.0	0.	155.	18.0	8.5	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	2.2	35.5	30.00	10.3	Q0.	177.	25.5	11.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	2.9	50.0	32.50	11.9	Q0.	Q204.	41.8	20.0	<b>75<sup>e</sup></b>
<b>90TH</b>	3.3	120.0	45.00	20.0	Q0.	285.	160.0	35.0	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	30(0)	30(5)	13(2)	29(0)	3(0)	30(4)	30(1)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.24	L.003	L.003	.02	.74	L.003	L.01		<b>MINIMUM</b>
<b>HIGH</b>	2.75	.530	.026	.410	.90	.066	.24		<b>MAXIMUM</b>
<b>AVERAGE</b>	1.263	.096*	.011*	.165	.81	.020*	.060*		<b>MOYENNE</b>
<b>STD.DEV.</b>	.570	.134*	.007*	.110	.08	.017*	.044*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.600	L.010	L.003	.025		.005	.020		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	1.04	.013	.007	.086		.009	.040		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	1.135	.042	.009	.13	.8	.013	.048		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.50	.120	.014	.25		.026	.068		<b>75<sup>e</sup></b>
<b>90TH</b>	2.140	.240	.022	.32		.045	.104		<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0002 LAT 56° 54' N LONG 111° 27' W

ITEM 12 472330 6307670  
MAY 17 1976 TO/A OCT 16 1979POPLAR CREEK - 13 MILES NORTH OF FORT  
MCMURRAY VIA HWY 63 - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	33(0)	33(0)	29(0)	33(0)	18(0)	30(0)	28(2)	19(19)	ECHANTILLONS(IND.)
LOW	1.8	13.	21.	13.	6.2	42.	L.05	L.0	MINIMUM
HIGH	14.50	45.	93.0	41.	12.9	205.	.17	L.0	MAXIMUM
AVERAGE	6.31	27.6	32.7	25.6	9.4	82.	.11*		MOYENNE
STD.DEV.	2.91	6.8	13.6	6.1	1.8	33.	.04*		ECART-TYPE
PERCNT:10TH	3.5	19.0	22.5	17.0	7.3	53.	.05	L.0	10 <sup>e</sup> PERCNT
25TH	4.90	24.0	25.5	22.	8.2	60.	.08	L.0	25 <sup>e</sup>
MEDIAN 50TH	5.7	27.0	29.0	25.5	9.2	76.	.11	L.0	50 <sup>e</sup> MEDIANE
75TH	6.80	31.5	34.	28.5	10.6	100.	.13	L.0	75 <sup>e</sup>
90TH	11.6	35.0	43.0	32.	12.	122.	.15	L.0	90 <sup>e</sup>
SECONDARY CODE							07L 01L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06592L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHATES	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	25(0)	33(5)	19(0)	13(7)	8(5)	30(22)	29(6)	25(6)	ECHANTILLONS(IND.)
LOW	.45	L1.0	15.	L.001	L.001	L.001	.1	L.02	MINIMUM
HIGH	2.3	8.0	36.	.013	L.01	.011	3.3	.92	MAXIMUM
AVERAGE	1.51	2.5*	25.6	.0023*	.005*	.002*	.9*	.20*	MOYENNE
STD.DEV.	.44	1.7*	5.4	.0033*	.004*	.002*	.8*	.20*	ECART-TYPE
PERCNT:10TH	1.0	L.0	17.	L.001		L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	1.20	1.0	21.	L.001	.001*	L.001	.2	.02	25 <sup>e</sup>
MEDIAN 50TH	1.6	2.	26.	L.001	.002	L.001	L1.0	.20	50 <sup>e</sup> MEDIANE
75TH	1.80	3.	28.	.002	L.010	.001	1.2	.25	75 <sup>e</sup>
90TH	2.1	5.0	35.	.003		.003	1.7	.36	90 <sup>e</sup>
SECONDARY CODE						33L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)	12(11)	33(0)	33(1)	7(7)	29(23)	4(3)	30(15)	3(3)	ECHANTILLONS(IND.)
LOW	L.001	.08	L.01	L.01	L.001	L.001	L.003	L.015	MINIMUM
HIGH	L.005	.33	1.0	L.05	.006	.004	.075	L.015	MAXIMUM
AVERAGE	.001*	.20	.21*		.001*	.0017*	.011*		MOYENNE
STD.DEV.	.001*	.06	.25*		.001*	.0015*	.021*		ECART-TYPE
PERCNT:10TH	L.001	.13	.03		L.001		L.003		10 <sup>e</sup> PERCNT
25TH	L.001	.16	.06	L.01	L.001	L.0010	L.003		25 <sup>e</sup>
MEDIAN 50TH	L.001	.20	.09	L.01	L.001	L.0010	.003*	L.015	50 <sup>e</sup> MEDIANE
75TH	L.001	.23	.27	L.05	L.001	.0025*	.006		75 <sup>e</sup>
90TH	.001	.27	.40		.002		.037		90 <sup>e</sup>
SECONDARY CODE	02L	06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0002** LAT. **56 D 54 M 50 S** LONG. **111 D 27 M 16 S**

UTM **12 472330E 6307670 N**  
MAY 17, 1976 TO/À OCT 16, 1979

POPLAR CREEK - 13 MILES NORTH OF FORT  
MCMURRAY VIA HWY 63 - AOSERP

	25304L MANGANESE EXTRBLE. MN MG/L	26304L IRON EXTRBLE. FE MG/L	27302L COBALT EXTRBLE. CO MG/L	28302L NICKEL EXTRBLE. NI MG/L	29301L COPPER EXTRBLE. CU MG/L	30305L ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	33(0)	33(0)	32(24)	32(16)	33(12)	32(5)	32(10)	32(29)	ECHANTILLONS(IND.)
LOW	.022	.12	L.001	L.001	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	.47	5.00	.031	.024	.018	.08	.004	.0008	MAXIMUM
AVERAGE	.178	1.34	.003*	.003*	.003*	.014*	.0008*	.0003*	MOYENNE
STD.DEV.	.142	1.23	.005*	.004*	.004*	.018*	.0007*	.0002*	ECART-TYPE
PERCNT:10TH	.053	.46	L.001	L.001	L.001	L.001	.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.070	.62	L.001	L.001	L.001	.002	L.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.110	.87	.001*	L.002	.002	.007	.0006	L.0002	50 <sup>e</sup> MEDIANE
75TH	.310	1.25	L.002	.002	.003	.016	.0009	L.0005	75 <sup>e</sup>
90TH	.395	3.00	.004	.005	.007	.040	.0010	L.0005	90 <sup>e</sup>
SECONDARY CODE	01L	01L	01L	01L	05L	01L 04L	01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)	3(0)	3(3)	6(5)	3(2)	32(29)		3(1)	29(21)	ECHANTILLONS(IND.)
LOW	.16	L.10	L.01	L.001	L.001		L.1	L.0001	MINIMUM
HIGH	.25	L.10	.03	.002	.016		.1	.0016	MAXIMUM
AVERAGE	.20		.01*	.001*	.002*		.1*	.0003*	MOYENNE
STD.DEV.	.05		.01*	.001*	.004*		.0*	.0005*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH	.19	L.10	L.00	L.001	L.001		.1	L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0002	75 <sup>e</sup>
90TH					L.001			.0012	90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

	82301L LEAD EXTRBLE. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	32(21)	30(0)	15(0)	15(1)	16(1)	33(0)	33(0)	32(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	20.	2.	156.	111.	MINIMUM
HIGH	.175	4.	46.	G210.	99999.	323.	1782.	1284.	MAXIMUM
AVERAGE	.009*	2.	11.	46.*	11744.*	29.	341.	261.	MOYENNE
STD.DEV.	.031*	1.	15.	61.*	26560.*	60.	335.	271.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	0.	190.	2.	178.	122.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	4.	475.	5.	204.	142.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	5.	17.	1600.	10.	228.	171.	50 <sup>e</sup> MEDIANE
75TH	.004*	2.	22.	67.	8100.	25.	306.	240.	75 <sup>e</sup>
90TH	.005	3.	33.	153.	50000.	40.	594.	408.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0003 LAT. 57 D 8 M 5 S LONG. 111 D 36 M 8 S

UTM 12 463560E 6332330N

FEB 11 1976 TO/A MAR 22 1978

## MUSKEG RIVER NEAR THE MOUTH - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	10(0)	10(0)	10(2)	10(0)	8(0)	2(0)	10(0)	3(0)	ECHANTILLONS(IND.)
LOW	205.	118.	97.4	40.	2.8	6.8	113.6	.1	MINIMUM
HIGH	1360.	779.	638.3	90.	16.	7.9	790.0	.5	MAXIMUM
AVERAGE	473.	265.	229.4*	64.	8.5		255.1		MOYENNE
STD.DEV.	325.	188.	152.7*	16.	5.1		194.9		ECART-TYPE
PERCNT:10TH	232.	134.	113.0	45.			124.8		10 <sup>e</sup> PERCNT
25TH	335.	185.	138.0	50.	4.2		156.0		25 <sup>e</sup>
MEDIAN 50TH	400.	218.	197.3	63.	7.0	7.3	205.0	.2	50 <sup>e</sup> MEDIANE
75TH	471.	273.	252.1	70.	13.3		257.0		75 <sup>e</sup>
90TH	930.	536.	449.8	88.			535.4		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	ECHANTILLONS(IND.)
LOW	.5	9.	25.5	8.2	0.	138.	2.1	.5	MINIMUM
HIGH	6.0	50.0	160.0	58.0	0.	963.	20.2	10.9	MAXIMUM
AVERAGE	1.6	18.4	63.42	17.2	0.	311.	8.1	3.5	MOYENNE
STD.DEV.	1.6	12.0	37.32	14.7	0.	238.	6.2	3.3	ECART-TYPE
PERCNT:10TH	.6	10.5	30.75	8.6	0.	152.	2.7	.5	10 <sup>e</sup> PERCNT
25TH	.8	12.5	39.9	9.4	0.	190.	4.1	.5	25 <sup>e</sup>
MEDIAN 50TH	1.2	14.5	56.75	13.1	0.	250.	5.7	4.2	50 <sup>e</sup> MEDIANE
75TH	1.8	16.5	73.1	16.9	0.	313.	8.3	4.5	75 <sup>e</sup>
90TH	3.9	38.3	117.50	38.0	0.	653.	19.1	8.0	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)	7(0)	7(5)	1(0)	7(0)	3(0)	7(4)	7(1)		ECHANTILLONS(IND.)
LOW	.55	L.01	.004	.06	.52	.004	L.005		MINIMUM
HIGH	3.94	.60	.004	1.31	1.0	.02	.07		MAXIMUM
AVERAGE	1.751	.132*		.379	.71	.011*	.034*		MOYENNE
STD.DEV.	1.273	.219*		.464	.26	.007*	.023*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.70	L.01		.07		L.005	.007		25 <sup>e</sup>
MEDIAN 50TH	1.29	L.03		.10	.6	L.01	.04		50 <sup>e</sup> MEDIANE
75TH	2.89	.215		.64		.02	.05		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0003** LAT. **57 D 8 M 5 S** LONG. **111 D 36 M 8 S**

UTM **12 463560E 6332330 N**  
FEB 11, 1976 TO/À MAR 22, 1978

MUSKEG RIVER NEAR THE MOUTH - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	06101L CARBON DISSOLVED ORGANIC C	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	MG/L	MG/L	MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	10(0)	10(0)	10(0)	8(0)	2(0)	7(0)	10(0)	5(5)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>2.6</b>	<b>10.0</b>	<b>16.</b>	<b>9.0</b>	<b>8.0</b>	<b>46.</b>	<b>.06</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>57.</b>	<b>63.</b>	<b>118.</b>	<b>61.</b>	<b>8.1</b>	<b>89.</b>	<b>.22</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>14.64</b>	<b>25.3</b>	<b>48.3</b>	<b>25.5</b>	<b>8.0</b>	<b>66.</b>	<b>.12</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	15.22	14.2	28.7	15.4	.1	19.	.04		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	5.65	14.0	18.5				.07		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	8.9	19.0	31.	18.0		46.	.10	L.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>10.70</b>	<b>22.8</b>	<b>44.8</b>	<b>22.5</b>	<b>8.0</b>	<b>68.</b>	<b>.12</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	13.0	26.0	57.5	26.5		89.	.14	L.0	<b>75<sup>e</sup></b>
<b>90TH</b>	35.35	46.0	91.0				.19		<b>90<sup>e</sup></b>
SECONDARY CODE							01L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	7(0)	10(3)	4(0)	5(5)	6(6)	8(3)	7(4)	7(5)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.09</b>	<b>L1.0</b>	<b>19.</b>	<b>L.001</b>	<b>L.002</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.30</b>	<b>14.0</b>	<b>28.</b>	<b>L.005</b>	<b>L.01</b>	<b>.019</b>	<b>L1.0</b>	<b>.19</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.30</b>	<b>4.5*</b>	<b>22.5</b>			<b>.006*</b>	<b>.3*</b>	<b>.04*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	.68	4.6*	4.0			.007*	.4*	.06*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		L1.0							<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.95	L1.0	19.5	L.001	L.01	L.001	L.1	L.02	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.3</b>	<b>3.3</b>	<b>21.5</b>	<b>L.001</b>	<b>L.010</b>	<b>.004</b>	<b>.1</b>	<b>L.02</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.65	5.5	25.5	L.001	L.01	.010	.6	.02	<b>75<sup>e</sup></b>
<b>90TH</b>		12.5							<b>90<sup>e</sup></b>
SECONDARY CODE						33L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED B	13301L ALUMINIUM EXTRBL.	92500L TITANIUM TOTAL Ti	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	MG/L	AL MG/L	MG/L	MG/L	V MG/L	MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>	3(3)	8(0)	10(3)	1(1)	4(4)	6(6)	7(4)	3(3)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.005</b>	<b>.01</b>	<b>L.00</b>	<b>L.01</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>L.015</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.005</b>	<b>.36</b>	<b>.06</b>	<b>L.01</b>	<b>L.001</b>	<b>L.01</b>	<b>.013</b>	<b>L.015</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.12</b>	<b>.04*</b>				<b>.005*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		.11	.02*				.004*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			.01*						<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.04	.02		L.001	L.001	L.003		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.005</b>	<b>.10</b>	<b>.05*</b>		<b>L.001</b>	<b>L.0010</b>	<b>L.003</b>	<b>L.015</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.16	.05		L.001	L.01	.004		<b>75<sup>e</sup></b>
<b>90TH</b>			.06						<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0003 LAT. 57 D 8 M 5 S LONG. 111 D 36 M 8 S

UTM 12 463560 E 6332330 N  
FEB 11 1976 TO/A MAR 22 1978

MUSKEG RIVER NEAR THE MOUTH - AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	10(9)	10(6)	10(4)	10(3)	6(6)	6(6)	ECHANTILLONS(IND.)
LOW	.007	.40	L.002	L.002	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	2.05	3.05	.002	.026	.017	.042	L.001	L.0005	MAXIMUM
AVERAGE	.271	.96	.002*	.005*	.004*	.008*			MOYENNE
STD.DEV.	.628	.82	.000*	.008*	.005*	.013*			ECART-TYPE
PERCNT:10TH	.018	.41	L.002	L.002	L.001	L.001			10 <sup>e</sup> PERCNT
25TH	.032	.44	L.002	L.002	L.001	L.001	L.0005	L.0005	25 <sup>e</sup>
MEDIAN 50TH	.052	.57	L.002	L.002	.002	.003	L.0007	L.0005	50 <sup>e</sup> MEDIANE
75TH	.15	1.30	L.002	.005	.004	.005	L.001	L.0005	75 <sup>e</sup>
90TH	1.125	2.21	.002*	.017	.012	.030			90 <sup>e</sup>
SECONDARY CODE	01L	01L	01L	01L	05L 06L	01L 04L	01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)	3(0)	3(3)	7(7)	2(2)	10(8)	1(1)	3(2)	7(2)	ECHANTILLONS(IND.)
LOW	.10	L.10	L.00	L.001	L.001	L.0	L.1	L.0001	MINIMUM
HIGH	.20	L.10	L.01	L.001	.006	L.0	.1	.0021	MAXIMUM
AVERAGE	.16				.002*		.0*	.0006*	MOYENNE
STD.DEV.	.05				.002*		.0*	.0008*	ECART-TYPE
PERCNT:10TH					L.001				10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH	.17	L.10	L.01	L.001	L.001		L.1	.0002	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0011	75 <sup>e</sup>
90TH					.004				90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO-100ML	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO-100ML	MPN NO-100ML	NO-100ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	10(9)	7(0)	1(0)	1(0)	1(0)	10(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	2.	5.	50.	3.	123.	90.	MINIMUM
HIGH	L.024	8.	2.	5.	50.	20.	844.	728.	MAXIMUM
AVERAGE	.005*	3.				7.	293.	241.	MOYENNE
STD.DEV.	.007*	2.				5.	214.	193.	ECART-TYPE
PERCNT:10TH	L.002					3.			10 <sup>e</sup> PERCNT
25TH	L.002	2.				4.	198.	148.	25 <sup>e</sup>
MEDIAN 50TH	.003*	2.				6.	239.	185.	50 <sup>e</sup> MEDIANE
75TH	L.004	4.				7.	248.	220.	75 <sup>e</sup>
90TH	L.014					15.			90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0004** LAT. **57 D 11M 30 S** LONG. **111 D 34M 5 S**

UTM **12 465680E 6338650 N**  
JUL 27, 1976 TO/A OCT 15, 1979

MUSKEG RIVER - SITE IS 2.2 MILES NORTH  
EAST OF FORT MACKAY - AT WSC GAUGE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	54(0)	54(0)	54(0)	23(0)	48(0)	37(0)	54(0)		ECHANTILLONS(IND.)
LOW	115.	63.	55.2	20.	.7	6.7	55.7		MINIMUM
HIGH	520.	306.	280.9	110.	66.5	9.	289.0		MAXIMUM
AVERAGE	309.	184.	159.2	64.	7.4		172.4		MOYENNE
STD.DEV.	110.	63.	57.4	28.	9.8		60.6		ECART-TYPE
PERCNT:10TH	160.	115.	100.1	35.	1.9	7.1	104.7		10 <sup>e</sup> PERCNT
25TH	220.	139.	119.5	35.	3.2	7.7	131.6		25 <sup>e</sup>
MEDIAN 50TH	305.	180.	150.6	75.	5.0	7.8	165.8		50 <sup>e</sup> MEDIANE
75TH	400.	240.	195.9	90.	8.5	8.3	219.2		75 <sup>e</sup>
90TH	475.	279.	251.0	95.	14.6	8.7	262.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
SAMPLES(FLAGS)	54(0)	54(0)	54(0)	54(0)	54(31)	54(31)	54(0)	54(0)	ECHANTILLONS(IND.)
LOW	.3	2.9	15.50	4.0	0.	Q68.	.5	.1	MINIMUM
HIGH	2.6	38.5	82.0	18.5	Q0.	352.	29.7	42.5	MAXIMUM
AVERAGE	.9	13.0	44.78	11.5	0.*	210.*	4.8	5.3	MOYENNE
STD.DEV.	.5	5.3	16.94	3.7	0.*	74.*	4.5	5.8	ECART-TYPE
PERCNT:10TH	.4	7.4	26.90	7.7	0.	Q127.	1.7	.6	10 <sup>e</sup> PERCNT
25TH	.5	11.0	32.80	9.0	0.	Q160.	2.1	3.3	25 <sup>e</sup>
MEDIAN 50TH	.7	13.0	42.75	10.8	0.	202.	4.0	4.3	50 <sup>e</sup> MEDIANE
75TH	1.4	14.5	57.0	13.0	Q0.	Q267.	5.4	5.8	75 <sup>e</sup>
90TH	1.6	16.0	71.5	17.2	Q0.	319.	6.3	9.1	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
SAMPLES(FLAGS)	51(0)	48(12)	19(2)	49(3)		48(11)	50(1)		ECHANTILLONS(IND.)
LOW	.28	L.003	L.003	L.002		L.003	L.005		MINIMUM
HIGH	3.00	.31	.015	.58		.041	.190		MAXIMUM
AVERAGE	1.203	.038*	.006*	.156*		.012*	.036*		MOYENNE
STD.DEV.	.481	.060*	.004*	.183*		.009*	.028*		ECART-TYPE
PERCNT:10TH	.66	L.003	L.003	.012		.004	.018		10 <sup>e</sup> PERCNT
25TH	.92	.005	.003	.031		.006	.023		25 <sup>e</sup>
MEDIAN 50TH	1.16	.011	.004	.070		L.010	.030		50 <sup>e</sup> MEDIANE
75TH	1.45	.050	.010	.215		.018	.040		75 <sup>e</sup>
90TH	1.70	.120	.014	.50		.025	.060		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0004 LAT. 57 D 11M 30 S LONG. 111 D 34M 5 S

UTM 12 465680E 6338650N  
JUL 27 1976 TO A OCT 15 1979MUSKEG RIVER SITE IS 2.2 MILES NORTH  
EAST OF FORT MACKAY AT WSC GAUGE

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16131L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	54(0)	48(0)	45(0)	46(0)	37(0)	50(0)	49(6)	31(29)	ECHANTILLONS(IND.)
LOW	1.80	6.0	10.	6.0	5.0	34.	L.05	L.0	MINIMUM
HIGH	25.0	53.0	69.0	53.0	13.6	187.	.23	.1	MAXIMUM
AVERAGE	8.95	25.0	36.0	23.7	8.6	68.	.11*	.0*	MOYENNE
STD.DEV.	4.00	8.4	15.1	8.8	1.7	30.	.05*	.0*	ECART-TYPE
PERCNT:10TH	4.3	17.0	19.0	15.5	6.3	41.	L.05	L.0	10 <sup>e</sup> PERCNT
25TH	6.90	20.8	24.0	19.0	8.2	49.	.08	L.0	25 <sup>e</sup>
MEDIAN 50TH	8.60	24.3	33.0	23.0	8.6	59.	.12	L.0	50 <sup>e</sup> MEDIANE
75TH	11.9	27.5	46.5	27.	9.5	80.	.15	.0	75 <sup>e</sup>
90TH	13.50	35.	58.5	34.	10.4	105.	.17	L.0	90 <sup>e</sup>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	50(0)	51(19)	28(0)	10(7)	18(15)	40(22)	46(9)	46(9)	ECHANTILLONS(IND.)
LOW	.08	L.0	3.	L.001	L.001	L.001	L.0	L.02	MINIMUM
HIGH	2.4	9.0	36.	.008	L.01	.025	3.5	.37	MAXIMUM
AVERAGE	1.34	1.7*	19.8	.0022*	.004*	.003*	.8*	.13*	MOYENNE
STD.DEV.	.49	1.6*	8.4	.0023*	.004*	.006*	.8*	.09*	ECART-TYPE
PERCNT:10TH	.55	L.0	10.	L.0010	L.001	L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	1.1	L.0	13.5	L.001	L.001	L.001	.2	.03	25 <sup>e</sup>
MEDIAN 50TH	1.47	1.	20.0	L.0010	L.002	L.001	.7	.14	50 <sup>e</sup> MEDIANE
75TH	1.6	2.	27.0	.003	L.01	.003	1.0	.18	75 <sup>e</sup>
90TH	1.80	3.	30.	.0060	L.01	.011	1.8	.23	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	1(1)	24(1)	48(5)	11(11)	45(41)	3(3)	50(27)		ECHANTILLONS(IND.)
LOW	L.001	.03	L.01	L.01	L.001	L.001	L.003		MINIMUM
HIGH	L.001	.26	.22	L.05	.005	L.01	.016		MAXIMUM
AVERAGE		.14*	.05*		.001*		.004*		MOYENNE
STD.DEV.		.06*	.04*		.001*		.002*		ECART-TYPE
PERCNT:10TH		.07	.01	L.01	L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.10	.02	L.01	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.14	.04	L.05	L.001	L.001	L.003		50 <sup>e</sup> MEDIANE
75TH		.18	.05	L.05	L.001		.004		75 <sup>e</sup>
90TH		.22	.08	L.05	L.001		.007		90 <sup>e</sup>
SECONDARY CODE	02L	06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0004** LAT. **57 D 11M 30 S** LONG. **111 D 34M 5 S**

UTM **12 465680E 6338650 N**  
JUL 27, 1976 TO/À OCT 15, 1979

MUSKEG RIVER - SITE IS 2.2 MILES NORTH  
EAST OF FORT MACKAY - AT WSC GAUGE

	25304L MANGANESE EXTRBL. MN MG/L	26304L IRON EXTRBL. FE MG/L	27302L COBALT EXTRBL. CO MG/L	28302L NICKEL EXTRBL. NI MG/L	29301L COPPER EXTRBL. CU MG/L	30305L ZINC EXTRBL. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	48(0)	48(0)	24(22)	48(40)	48(21)	48(6)	51(16)	51(44)	ECHANTILLONS(IND.)
LOW	.010	.35	L.001	L.001	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	2.300	10.50	.006	.010	.026	.091	.020	.0009	MAXIMUM
AVERAGE	.207	1.42	.002*	.002*	.003*	.010*	.0013*	.0003*	MOYENNE
STD.DEV.	.385	1.53	.001*	.001*	.005*	.016*	.0032*	.0002*	ECART-TYPE
PERCNT:10TH	.018	.47	L.001	L.001	L.001	L.001	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.026	.69	L.002	L.001	L.001	.002	.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.049	.90	L.002	.001	.001	.005	.0006	L.0002	50 <sup>e</sup> MEDIANE
75TH	.225	1.78	L.002	L.002	.003	.013	L.001	.0002	75 <sup>e</sup>
90TH	.630	2.45	L.002	L.002	.006	.023	.0015	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL. SR MG/L	42301L MOLYBDENUM EXTRBL. MO MG/L	47301L SILVER EXTRBL. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBL. CD MG/L	51301L ANTIMONY EXTRBL. SB MG/L	56301L BARIUM EXTRBL. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			13(12)		24(24)			48(40)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		L.001			.0004	MAXIMUM
AVERAGE			.00*					.0001*	MOYENNE
STD.DEV.			.00*					.0001*	ECART-TYPE
PERCNT:10TH			L.00		L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH			L.01		L.001			.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL. Pb MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	48(35)	51(0)	28(1)	29(0)	27(2)	51(2)	51(0)	50(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	50.	L0.	72.	49.	MINIMUM
HIGH	.021	16.	22.	110.	00000.	72.	365.	308.	MAXIMUM
AVERAGE	.003*	3.	5.*	17.	6330.*	6.*	201.	156.	MOYENNE
STD.DEV.	.003*	3.	5.*	25.	19160.*	10.*	74.	65.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	0.	310.	1.	119.	77.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	2.	2.	500.	2.	145.	120.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	4.	7.	1200.	4.	190.	139.	50 <sup>e</sup> MEDIANE
75TH	.002	2.	7.	21.	3400.	6.	276.	190.	75 <sup>e</sup>
90TH	.005	4.	11.	43.	G9999.	8.	299.	252.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0005 LAT. 57 D 14 M 18 S LONG. 111 D 24 M 55 S

UTM 12 474950E 6343780 N  
JUL 27, 1976 TO/A JUL 18, 1977

HARTLEY CREEK - 2 MILES ABOVE  
CONFLUENCE WITH MUSKEG RIVER -AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE-CM	MG/L	MG/L						
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	10(0)	6(0)	2(0)	10(0)		ECHANTILLONS(IND.)
LOW	115.	67.	51.0	40.	1.0	7.9	56.4		MINIMUM
HIGH	550.	327.	275.9	120.	19.0	8.3	303.0		MAXIMUM
AVERAGE	247.	142.	116.6	89.	6.7		134.4		MOYENNE
STD.DEV.	122.	73.	64.9	23.	7.4		68.3		ECART-TYPE
PERCNT:10TH	145.	86.	62.8	55.			77.4		10 <sup>e</sup> PERCNT
25TH	187.	107.	82.5	75.	1.8		99.0		25 <sup>e</sup>
MEDIAN 50TH	201.	114.	93.1	95.	2.9	8.1	109.6		50 <sup>e</sup> MEDIANE
75TH	270.	151.	130.2	105.	12.6		145.3		75 <sup>e</sup>
90TH	445.	257.	223.2	115.			242.5		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K	11101L SODIUM DISSOLVED NA	20101L CALCIUM DISSOLVED CA	12102L MAGNESIUM DISSOLVED MG	06301L CARBONATE (CALCD.) CO3	06201L BICARBONT. (CALCD.) HCO3	17201L CHLORIDE DISSOLVED CL	16306L SULPHATE DISSOLVED SO4	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	ECHANTILLONS(IND.)
LOW	.2	6.8	13.5	4.2	0.	69.	1.0	.1	MINIMUM
HIGH	2.2	24.0	77.5	20.0	0.	369.	9.2	13.2	MAXIMUM
AVERAGE	.8	12.8	31.95	9.0	0.	164.	2.7	3.9	MOYENNE
STD.DEV.	.7	4.5	18.62	4.5	0.	83.	2.4	4.1	ECART-TYPE
PERCNT:10TH	.3	8.6	16.75	5.1	0.	94.	1.1	3	10 <sup>e</sup> PERCNT
25TH	.4	10.5	22.0	6.2	0.	121.	1.4	5	25 <sup>e</sup>
MEDIAN 50TH	.5	12.0	24.75	7.8	0.	134.	2.1	3.4	50 <sup>e</sup> MEDIANE
75TH	1.0	13.6	35.0	10.4	0.	177.	3.3	6.0	75 <sup>e</sup>
90TH	2.0	19.3	63.00	16.0	0.	296.	6.3	9.9	90 <sup>e</sup>
SECONDARY CODE	02L	02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N	07110L NITROGEN DISSOLVED NO3 & NO2 N	07206L NITROGEN DISSOLVED NITRITE N	07555L NITROGEN DISSOLVED AMMONIA N	07651L NITROGEN DISSOLVED N	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P	15406L PHOSPHORUS TOTAL P	15407L PHOSPHATE TOTAL P	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	10(0)	10(5)		10(1)		9(5)	10(1)		ECHANTILLONS(IND.)
LOW	.30	L.01		L.01		L.005	L.005		MINIMUM
HIGH	1.50	.24		.42		.011	.08		MAXIMUM
AVERAGE	.854	.058*		.098*		.010*	.040*		MOYENNE
STD.DEV.	.354	.087*		.120*		.002*	.024*		ECART-TYPE
PERCNT:10TH	.400	L.010		.010*			.012*		10 <sup>e</sup> PERCNT
25TH	.64	L.01		.04		L.01	.023		25 <sup>e</sup>
MEDIAN 50TH	.850	.010*		.060		L.01	.035		50 <sup>e</sup> MEDIANE
75TH	1.02	.06		.10		.01	.06		75 <sup>e</sup>
90TH	1.365	.220		.280			.070		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0005** LAT. **57 D 14 M 18 S** LONG. **111 D 24 M 55 S**

UTM **12 474950 E 6343780 N**  
JUL 27, 1976 TO/À JUL 18, 1977

HARTLEY CREEK - 2 MILES ABOVE  
CONFLUENCE WITH MUSKEG RIVER -AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>8(0)</b>	<b>6(0)</b>	<b>10(0)</b>	<b>8(0)</b>	<b>6(6)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.8</b>	<b>12.</b>	<b>8.</b>	<b>11.5</b>	<b>7.6</b>	<b>39.</b>	<b>.04</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>17.0</b>	<b>41.</b>	<b>68.</b>	<b>34.</b>	<b>12.0</b>	<b>103.</b>	<b>.13</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>7.83</b>	<b>24.5</b>	<b>24.3</b>	<b>20.6</b>	<b>10.3</b>	<b>67.</b>	<b>.08</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>4.73</b>	<b>9.4</b>	<b>16.8</b>	<b>9.2</b>	<b>1.8</b>	<b>21.</b>	<b>.03</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>2.55</b>	<b>12.3</b>	<b>9.0</b>			<b>41.</b>			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>3.3</b>	<b>15.</b>	<b>15.5</b>	<b>12.3</b>	<b>8.5</b>	<b>50.</b>	<b>.07</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>8.80</b>	<b>27.8</b>	<b>21.5</b>	<b>20.0</b>	<b>10.8</b>	<b>67.</b>	<b>.08</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>10.6</b>	<b>29.</b>	<b>26.5</b>	<b>27.5</b>	<b>12.</b>	<b>78.</b>	<b>.10</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>14.35</b>	<b>36.5</b>	<b>49.0</b>			<b>100.</b>			<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>8(0)</b>		<b>5(4)</b>	<b>6(6)</b>	<b>8(3)</b>	<b>8(3)</b>	<b>8(8)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.5</b>	<b>1.0</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.15</b>	<b>16.0</b>		<b>.024</b>	<b>L.01</b>	<b>.019</b>	<b>1.1</b>	<b>L.02</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.43</b>	<b>5.5</b>		<b>.0056*</b>		<b>.005*</b>	<b>.4*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.41</b>	<b>5.4</b>		<b>.0103*</b>		<b>.007*</b>	<b>.4*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.85</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.30</b>	<b>1.5</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.47</b>	<b>3.5</b>		<b>L.001</b>	<b>L.010</b>	<b>.003</b>	<b>.3</b>	<b>L.02</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.6</b>	<b>8.5</b>		<b>L.001</b>	<b>L.01</b>	<b>.007</b>	<b>.7</b>	<b>L.02</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.87</b>								<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		<b>10(0)</b>	<b>8(2)</b>		<b>7(7)</b>	<b>3(2)</b>	<b>8(7)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.04</b>	<b>L.01</b>		<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.33</b>	<b>.34</b>		<b>L.001</b>	<b>L.01</b>	<b>.004</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.12</b>	<b>.10*</b>			<b>.0047*</b>	<b>.003*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.08</b>	<b>.11*</b>			<b>.0047*</b>	<b>.000*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.05</b>							<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.08</b>	<b>.04*</b>		<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.11</b>	<b>.07</b>		<b>L.001</b>	<b>.003</b>	<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.12</b>	<b>.12</b>		<b>L.001</b>		<b>L.003</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.23</b>							<b>90<sup>e</sup></b>
SECONDARY CODE				02L	02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

TATION 00AT07DA0005 LAT. 57 D 14 M 18 S LONG. 111 D 24 M 55 S

UTM 12 474950E 6343780 N  
JUL 27 1976 TO: A JUL 18 1977

ARTLEY CREEK - 2 MILES ABOVE  
CONFLUENCE WITH MUSKEG RIVER -AOSERP

	24104L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	8(8)	10(9)	10(2)	8(1)	7(2)	7(6)	ECHANTILLONS(IND.)
LOW	.018	.42	L.002	L.002	L.001	L.001	L.001	L.0002	MINIMUM
HIGH	.18	3.10	L.002	.002	.016	.011	.020	.0007	MAXIMUM
AVERAGE	.054	.97		.002*	.007*	.005*	.0042*	.0004*	MOYENNE
STD.DEV.	.049	.82		.000*	.006*	.003*	.0070*	.0002*	ECART-TYPE
PERCNT:10TH	.020	.42		L.002	L.001				10 <sup>e</sup> PERCNT
25TH	.023	.46	L.002	L.002	.001	.003	L.001	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.036	.77	L.002	L.002	.003	.005	.0011	L.0005	50 <sup>e</sup> MEDIANE
75TH	.07	.96	L.002	L.002	.014	.008	.004	L.0005	75 <sup>e</sup>
90TH	.131	2.29		.002*	.016				90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			8(7)		10(8)			10(7)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.002			.0045	MAXIMUM
AVERAGE			.00*		.001*			.0006*	MOYENNE
STD.DEV.			.00*		.000*			.0014*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			.00*		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.00		L.001			.0002	75 <sup>e</sup>
90TH					.002			.0024	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	10(7)	10(0)	6(0)	6(0)	6(5)	10(0)	10(0)	10(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	1500.	0.	74.	50.	MINIMUM
HIGH	.018	4.	23.	23.	30000.	20.	385.	346.	MAXIMUM
AVERAGE	.004*	3.	5.	7.	10750.*	8.	159.	125.	MOYENNE
STD.DEV.	.005*	1.	9.	9.	10177.*	8.	89.	86.	ECART-TYPE
PERCNT:10TH	L.002	2.				2.	91.	64.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	0.	G3000.	3.	112.	81.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	1.	2.	9999.	3.	121.	90.	50 <sup>e</sup> MEDIANE
75TH	.003	4.	2.	14.	G9999.	16.	200.	150.	75 <sup>e</sup>
90TH	.011	4.				19.	294.	261.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0006** LAT. **57 D 21M 8 S** LONG. **111 D 22M 44 S**UTM **12 477210E 6356440 N**  
JUL 29, 1976 TO/A JUL 20, 1977STANLEY CREEK - 1.5 MILES ABOVE  
CONFLUENCE WITH MUSKEG RIVER - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	11(0)	11(0)	11(0)	11(0)	8(0)	3(0)	11(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	185.	103.	102.0	5.	.8	6.9	102.8		<b>MINIMUM</b>
<b>HIGH</b>	320.	182.	184.6	30.	11.1	7.8	184.0		<b>MAXIMUM</b>
<b>AVERAGE</b>	277.	150.	149.0	18.	4.0		152.1		<b>MOYENNE</b>
<b>STD.DEV.</b>	48.	24.	25.5	10.	4.3		25.7		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	210.	116.	111.6	5.			117.0		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	233.	138.	132.8	5.	1.3		139.0		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	300.	156.	161.4	20.	1.8	7.6	152.0		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	310.	170.	164.3	30.	6.8		171.8		<b>75<sup>e</sup></b>
<b>90TH</b>	320.	172.	168.8	30.			180.0		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
<b>SAMPLES(FLAGS)</b>	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.1	1.4	28.5	7.5	0.	125.	.2	.5	<b>MINIMUM</b>
<b>HIGH</b>	1.5	2.5	52.0	13.3	0.	224.	1.0	5.2	<b>MAXIMUM</b>
<b>AVERAGE</b>	.8	2.0	42.50	10.4	0.	185.	.5	2.6	<b>MOYENNE</b>
<b>STD.DEV.</b>	.4	.4	7.47	1.8	0.	31.	.2	1.7	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.4	1.5	31.5	8.0	0.	143.	.2	.5	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.5	1.8	38.0	9.2	0.	169.	.2	.5	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.9	2.1	45.0	10.2	0.	185.	.5	3.3	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.2	2.3	48.0	11.9	0.	209.	.6	4.0	<b>75<sup>e</sup></b>
<b>90TH</b>	1.2	2.5	49.0	11.9	0.	219.	.6	4.5	<b>90<sup>e</sup></b>
SECONDARY CODE	02L 03L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
<b>SAMPLES(FLAGS)</b>	11(0)	11(5)		11(1)		11(1)	11(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.05	.003		L.02		L.01	.023		<b>MINIMUM</b>
<b>HIGH</b>	2.45	.10		.29		.09	.32		<b>MAXIMUM</b>
<b>AVERAGE</b>	.844	.019*		.099*		.024*	.133		<b>MOYENNE</b>
<b>STD.DEV.</b>	.633	.028*		.083*		.025*	.092		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.35	L.01		.02		.01	.05		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.42	L.01		.02		.01	.05		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.75	L.01		.08		.016	.14		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.13	.010		.14		.02	.17		<b>75<sup>e</sup></b>
<b>90TH</b>	1.20	.03		.19		.05	.24		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0006 LAT. 57 D 21 M 8 S LONG. 111 D 22 M 44 S

UTM 12 477210E 6356440 N  
JUL 29 1976 TO/A JUL 20 1977STANLEY CREEK - 1.5 MILES ABOVE  
CONFLUENCE WITH MUSKEG RIVER - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	06102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	15101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	11(0)	11(0)	11(0)	9(0)	6(0)	11(0)	8(0)	3(3)	ECHANTILLONS(IND.)
LOW	9.0	2.	17.	1.	1.6	17.	.08	L.0	MINIMUM
HIGH	19.0	17.	38.	16.	9.3	400.	.19	L.0	MAXIMUM
AVERAGE	13.24	9.7	29.2	7.1	5.5	82.	.13		MOYENNE
STD.DEV.	3.09	4.3	6.9	4.9	2.7	110.	.04		ECART-TYPE
PERCNT:10TH	9.3	5.	21.			21.			10 <sup>e</sup> PERCNT
25TH	10.7	6.5	25.	3.	3.8	33.	.11		25 <sup>e</sup>
MEDIAN 50TH	12.9	9.5	28.	7.	5.7	45.	.14	L.0	50 <sup>e</sup> MEDIANE
75TH	15.5	13.5	36.	9.5	7.1	84.	.16		75 <sup>e</sup>
90TH	16.2	14.	37.			122.			90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	11(1)	8(5)		3(1)	4(4)	8(4)	8(4)	8(8)	ECHANTILLONS(IND.)
LOW	L.20	L.1.0		L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	1.3	2.5		.004	L.01	.020	6.6	L.02	MAXIMUM
AVERAGE	.50*	1.3*		.0030*		.006*	1.1*		MOYENNE
STD.DEV.	.33*	.6*		.0017*		.007*	2.2*		ECART-TYPE
PERCNT:10TH	.20								10 <sup>e</sup> PERCNT
25TH	.25	L.1.0			L.010	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.40	L.1.0		.004	L.010	.003*	.1*	L.02	50 <sup>e</sup> MEDIANE
75TH	.75	1.5			L.010	.009	1.0	L.02	75 <sup>e</sup>
90TH	.8								90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		11(0)	9(2)		8(8)	3(3)	10(9)		ECHANTILLONS(IND.)
LOW		.04	L.01		L.001	L.001	L.003		MINIMUM
HIGH		.22	.20		L.001	L.001	.007		MAXIMUM
AVERAGE		.09	.07*				.003*		MOYENNE
STD.DEV.		.06	.07*				.001*		ECART-TYPE
PERCNT:10TH		.04					L.003		10 <sup>e</sup> PERCNT
25TH		.04	.01		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.09	.07		L.001	L.001	L.003		50 <sup>e</sup> MEDIANE
75TH		.12	.11		L.001		L.003		75 <sup>e</sup>
90TH		.18					.005*		90 <sup>e</sup>

SECONDARY CODE

02L

02L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0006** LAT. **57 D 21M 8 S** LONG. **111 D 22M 44 S**

UTM **12 477210E 6356440 N**  
JAN 24, 1976 TO/À JUL 20, 1977

STANLEY CREEK - 1.5 MILES ABOVE  
CONFLUENCE WITH MUSKEG RIVER - AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	11(0)	11(0)	9(8)	11(10)	11(0)	9(0)	8(6)	9(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.016	.12	L.002	L.002	.001	.004	L.0002	L.0002	<b>MINIMUM</b>
<b>HIGH</b>	.705	4.45	.005	.004	.047	.017	.003	.0013	<b>MAXIMUM</b>
<b>AVERAGE</b>	.240	1.48	.002*	.002*	.013	.009	.0009*	.0005*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.259	1.41	.001*	.001*	.016	.004	.0009*	.0003*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.029	.15		L.002	.001				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.032	.20	L.002	L.002	.002	.006	L.0005	L.0005	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.12	.83	L.002	L.002	.005	.007	.0005*	L.0005	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.54	2.70	L.002	L.002	.030	.011	L.0010	L.0005	<b>75<sup>e</sup></b>
<b>90TH</b>	.610	2.75		L.002	.033				<b>90<sup>e</sup></b>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			8(6)		11(9)			10(9)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			L.00		L.001			L.0001	<b>MINIMUM</b>
<b>HIGH</b>			.01		.003			.0036	<b>MAXIMUM</b>
<b>AVERAGE</b>			.00*		.001*			.0005*	<b>MOYENNE</b>
<b>STD.DEV.</b>			.00*		.001*			.0011*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					L.001			L.0001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			L.00		L.001			L.0001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			L.00		L.001			L.0001	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			.00*		L.001			L.0002	<b>75<sup>e</sup></b>
<b>90TH</b>					.002			.0019*	<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	BACT.DENS. NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	11(7)	11(0)	6(0)	6(0)	5(1)	11(1)	11(0)	11(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.002	2.	0.	0.	120.	L0.	123.	120.	<b>MINIMUM</b>
<b>HIGH</b>	.008	8.	49.	350.	50000.	73.	228.	183.	<b>MAXIMUM</b>
<b>AVERAGE</b>	.004*	3.	11.	63.	18072.*	23.*	173.	150.	<b>MOYENNE</b>
<b>STD.DEV.</b>	.003*	2.	19.	141.	23691.*	24.*	30.	25.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.002	2.				0.	148.	123.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.002	2.	0.	2.	240.	2.	150.	124.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.002	2.	3.	7.	G3000.	13.	181.	139.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.008	4.	11.	13.	37000.	36.	195.	178.	<b>75<sup>e</sup></b>
<b>90TH</b>	.008	4.				58.	196.	178.	<b>90<sup>e</sup></b>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0007 LAT. 57 D 18 M 14 S LONG. 111 D 22 M 20 S

UTM 12 477580 E 6351060 N  
JUL 29 1976 TO A APR 10 1978KEARL LAKE TRIBUTARY TO MUSKEG RIVER  
1 MILE ABOVE CONFLUENCE WITH MUSKEG R.

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00215L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	CAC03 MG/L	REL UNITS	JTU	PH UNITS	CAC03 MG/L	PH UNITS	
SAMPLES(FLAGS)	16(0)	16(0)	16(0)	16(0)	14(0)	7(0)	16(0)		ECHANTILLONS(IND.)
LOW	105.	61.	42.7	50.	1.0	7.0	49.2		MINIMUM
HIGH	400.	232.	180.8	170.	26.0	8.3	230.0		MAXIMUM
AVERAGE	260.	155.	120.3	99.	4.7		143.4		MOYENNE
STD.DEV.	80.	48.	38.5	40.	6.5		48.0		ECART-TYPE
PERCNT:10TH	170.	102.	71.7	50.	1.0		91.2		10 <sup>e</sup> PERCNT
25TH	198.	111.	85.8	70.	1.6	7.6	103.8		25 <sup>e</sup>
MEDIAN 50TH	273.	159.	123.3	85.	2.2	7.8	144.1		50 <sup>e</sup> MEDIANE
75TH	315.	187.	149.2	135.	5.1	8.2	176.1		75 <sup>e</sup>
90TH	370.	227.	165.1	160.	8.7		210.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	16(0)	16(0)	16(0)	16(0)	16(0)	16(0)	16(0)	16(0)	ECHANTILLONS(IND.)
LOW	.4	7.1	11.0	3.7	0.	60.	.3	.5	MINIMUM
HIGH	3.3	24.0	47.0	15.4	0.	280.	5.5	14.2	MAXIMUM
AVERAGE	1.6	17.4	31.06	10.4	0.	175.	2.1	6.3	MOYENNE
STD.DEV.	.9	4.7	10.05	3.3	0.	59.	1.3	3.2	ECART-TYPE
PERCNT:10TH	.4	13.0	18.5	6.2	0.	111.	.7	.5	10 <sup>e</sup> PERCNT
25TH	.8	13.5	22.25	7.3	0.	127.	1.3	5.7	25 <sup>e</sup>
MEDIAN 50TH	1.8	18.8	32.25	10.7	0.	176.	2.0	6.5	50 <sup>e</sup> MEDIANE
75TH	2.0	20.8	37.90	13.1	0.	215.	2.8	7.5	75 <sup>e</sup>
90TH	2.6	23.5	45.0	13.5	0.	256.	3.8	8.6	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L	
SAMPLES(FLAGS)	16(0)	16(3)	3(1)	16(1)		16(0)	16(0)		ECHANTILLONS(IND.)
LOW	.50	.006	L.003	L.01		.008	.01		MINIMUM
HIGH	2.57	.270	.013	.50		.09	.20		MAXIMUM
AVERAGE	1.599	.072*	.009*	.172*		.024	.060		MOYENNE
STD.DEV.	.645	.080*	.006*	.139*		.026	.044		ECART-TYPE
PERCNT:10TH	.53	.007		.03		.01	.03		10 <sup>e</sup> PERCNT
25TH	1.255	L.010		.080		.010	.040		25 <sup>e</sup>
MEDIAN 50TH	1.500	.035	.012	.165		.013	.049		50 <sup>e</sup> MEDIANE
75TH	2.090	.115		.240		.020	.066		75 <sup>e</sup>
90TH	2.57	.200		.36		.08	.10		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0007 LAT. 57 D 18 M 14 S LONG. 111 D 22 M 20 S

UTM 12 477580E 6351060 N  
JUL 29, 1976 TO/A APR 10, 1978

KEARL LAKE TRIBUTARY TO MUSKEG RIVER  
1 MILE ABOVE CONFLUENCE WITH MUSKEG R.

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	16(0)	16(0)	16(0)	15(0)	7(0)	16(0)	13(0)	3(3)	ECHANTILLONS(IND.)
LOW	1.2	14.	8.	12.	2.4	57.	.06	L.0	MINIMUM
HIGH	14.4	41.	47.	41.	13.4	173.	.15	L.0	MAXIMUM
AVERAGE	7.28	32.8	27.7	32.1	8.2	95.	.10		MOYENNE
STD.DEV.	3.46	7.0	11.4	7.3	3.5	28.	.03		ECART-TYPE
PERCNT:10TH	2.8	25.5	16.	26.5		65.	.06		10 <sup>e</sup> PERCNT
25TH	4.90	29.3	17.0	28.0	6.3	79.	.08		25 <sup>e</sup>
MEDIAN 50TH	7.25	34.0	28.5	32.5	8.6	86.	.10	L.0	50 <sup>e</sup> MEDIANE
75TH	9.10	38.5	37.5	37.5	10.6	104.	.12		75 <sup>e</sup>
90TH	12.0	40.5	42.	40.0		129.	.13		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	16(0)	13(2)		3(2)	8(7)	10(8)	10(3)	13(8)	ECHANTILLONS(IND.)
LOW	1.2	L1.0		L.001	.001	L.001	L.1	L.02	MINIMUM
HIGH	2.6	8.0		.002	L.01	.018	5.5	.35	MAXIMUM
AVERAGE	1.70	2.7*		.0013*	.007*	.003*	1.3*	.09*	MOYENNE
STD.DEV.	.36	2.3*		.0006*	.004*	.005*	1.6*	.11*	ECART-TYPE
PERCNT:10TH	1.25	L1.0				L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	1.40	1.0			L.002	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.70	1.5		L.001	L.010	L.001	1.0	L.02	50 <sup>e</sup> MEDIANE
75TH	1.90	4.0			L.010	L.001	1.5	.15	75 <sup>e</sup>
90TH	2.05	6.5				.011	3.6	.25	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		16(0)	13(1)	5(5)	14(14)	2(2)	13(10)		ECHANTILLONS(IND.)
LOW		.01	L.01	L.01	L.001	L.001	L.003		MINIMUM
HIGH		.32	.39	L.05	L.001	L.001	.007		MAXIMUM
AVERAGE		.15	.08*				.004*		MOYENNE
STD.DEV.		.08	.10*				.001*		ECART-TYPE
PERCNT:10TH		.05	.03		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.08	.03	L.01	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.15	.04	L.05	L.001	L.0010	L.003		50 <sup>e</sup> MEDIANE
75TH		.19	.08	L.05	L.001		L.003		75 <sup>e</sup>
90TH		.28	.12		L.001		.006		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0007 LAT 57 D 18 M 14 S LONG. 111 D 22 M 20 S

UTM 12 477580E 6351060N

JUL 29 1976 TO/A APR 10 1978

KEARL LAKE TRIBUTARY TO MUSKEG RIVER  
1 MILE ABOVE CONFLUENCE WITH MUSKEG R.

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	16(0)	16(0)	15(14)	16(14)	16(1)	13(0)	14(7)	14(12)	ECHANTILLONS(IND.)
LOW	.018	.34	L.001	L.001	L.001	.003	L.0002	L.0002	MINIMUM
HIGH	.28	2.10	.006	.007	.095	.062	.004	.0006	MAXIMUM
AVERAGE	.068	.91	.002*	.002*	.015*	.012	.0010*	.0004*	MOYENNE
STD.DEV.	.071	.46	.001*	.001*	.025*	.016	.0011*	.0002*	ECART-TYPE
PERCNT:10TH	.024	.52	L.002	L.002	.001	.003	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.031	.63	L.002	L.002	.003	.004	.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.040	.85	L.002	L.002	.004	.007	L.0005	.0003*	50 <sup>e</sup> MEDIANE
75TH	.064	.98	L.002	L.002	.013	.011	L.001	L.0005	75 <sup>e</sup>
90TH	.17	1.85	L.002	.003	.051	.015	.003	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			9(9)		16(14)			16(13)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.003			.0003	MAXIMUM
AVERAGE					.001*			.0001*	MOYENNE
STD.DEV.					.001*			.0001*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0001	75 <sup>e</sup>
90TH					.002			L.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	16(9)	16(0)	8(0)	8(0)	7(2)	16(0)	16(0)	16(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	2.	470.	1.	67.	43.	MINIMUM
HIGH	.015	4.	49.	130.	G9999.	51.	240.	193.	MAXIMUM
AVERAGE	.003*	2.	12.	46.	3223.*	12.	164.	117.	MOYENNE
STD.DEV.	.003*	1.	16.	42.	3472.*	15.	51.	43.	ECART-TYPE
PERCNT:10TH	L.002	2.				2.	112.	69.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	3.	17.	890.	3.	123.	79.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	6.	38.	G1200.	5.	172.	121.	50 <sup>e</sup> MEDIANE
75TH	.003	2.	15.	64.	5500.	13.	205.	143.	75 <sup>e</sup>
90TH	.007	4.				38.	224.	173.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0008** LAT. **57 D 25M 0 S** LONG. **111 D 13M 16 S**

UTM **12 486730E 6363570 N**  
JUL 29, 1976 TO/A MAY 04, 1978

MUSKEG RIVER - 7 MILES UPSTREAM FROM  
STANLEY CREEK - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CAC03 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CAC03 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>15(0)</b>	<b>8(0)</b>	<b>18(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	120.	79.	74.6	35.	.7	7.3	76.0		MINIMUM
HIGH	610.	332.	327.6	110.	47.	8.1	327.2		MAXIMUM
AVERAGE	380.	214.	207.7	66.	7.1		212.3		MOYENNE
STD.DEV.	144.	84.	84.0	24.	11.4		84.3		ECART-TYPE
PERCNT:10TH	151.	84.	79.6	40.	1.2		78.4		10 <sup>e</sup> PERCNT
25TH	280.	156.	148.4	50.	1.4	7.5	154.1		25 <sup>e</sup>
MEDIAN 50TH	368.	197.	191.4	60.	5.3	7.6	195.9		50 <sup>e</sup> MEDIANE
75TH	528.	298.	287.8	80.	7.0	7.8	299.0		75 <sup>e</sup>
90TH	550.	330.	325.5	110.	10.0		326.8		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	.3	2.6	19.0	6.6	0.	93.	.8	.1	MINIMUM
HIGH	2.0	12.9	87.5	26.5	0.	399.	6.	9.2	MAXIMUM
AVERAGE	1.2	7.3	55.00	17.1	0.	259.	2.4	3.7	MOYENNE
STD.DEV.	.5	3.0	23.39	6.3	0.	103.	1.6	2.5	ECART-TYPE
PERCNT:10TH	.4	2.7	20.0	7.2	0.	96.	1.0	.5	10 <sup>e</sup> PERCNT
25TH	1.0	4.8	38.0	13.0	0.	188.	1.1	1.0	25 <sup>e</sup>
MEDIAN 50TH	1.2	6.8	50.75	15.4	0.	239.	1.5	4.3	50 <sup>e</sup> MEDIANE
75TH	1.5	9.9	79.0	24.0	0.	364.	3.4	4.6	75 <sup>e</sup>
90TH	1.8	11.7	87.5	26.0	0.	398.	4.9	7.6	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>18(4)</b>	<b>2(0)</b>	<b>18(1)</b>		<b>18(2)</b>	<b>18(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	.50	.005	.003	L.01		.006	.020		MINIMUM
HIGH	5.50	.14	.005	1.06		.03	.25		MAXIMUM
AVERAGE	1.446	.026*	.004	.238*		.013*	.077		MOYENNE
STD.DEV.	1.115	.032*	.001	.290*		.006*	.059		ECART-TYPE
PERCNT:10TH	.59	.007		.02		L.01	.03		10 <sup>e</sup> PERCNT
25TH	.95	L.01		.05		.010	.038		25 <sup>e</sup>
MEDIAN 50TH	1.160	.017	.004	.100		.011	.065		50 <sup>e</sup> MEDIANE
75TH	1.50	.028		.40		.015	.092		75 <sup>e</sup>
90TH	2.40	.072		.75		.02	.19		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0008 LAT. 57 D 25M 0 S LONG. 111 D 13M 16 S

UTM 12 486730E 6363570 N  
JUL 29 1976 TO A MAY 04 1978MUSKEG RIVER - 7 MILES UPSTREAM FROM  
STANLEY CREEK - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	18(0)	18(0)	18(0)	16(0)	7(0)	18(0)	14(0)	3(3)	ECHANTILLONS(IND.)
LOW	4.2	10.0	12.	9.5	4.0	44.	.07	L.0	MINIMUM
HIGH	17.0	45.	77.	44.	8.4	174.	.21	L.0	MAXIMUM
AVERAGE	11.22	24.8	42.9	23.6	6.3	81.	.13		MOYENNE
STD.DEV.	4.41	8.1	18.9	7.8	1.7	37.	.05		ECART-TYPE
PERCNT:10TH	5.2	12.	15.5	11.		52.	.08		10 <sup>e</sup> PERCNT
25TH	6.0	21.	28.0	21.5	4.1	58.	.09		25 <sup>e</sup>
MEDIAN 50TH	12.55	25.5	43.3	24.5	6.2	69.	.12	L.0	50 <sup>e</sup> MEDIANE
75TH	14.8	29.	53.	27.0	7.6	84.	.16		75 <sup>e</sup>
90TH	16.0	34.	75.5	28.0		171.	.20		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT N-ALKYL SULPHNTS LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	18(0)	15(3)		3(3)	8(8)	12(6)	11(6)	15(8)	ECHANTILLONS(IND.)
LOW	.45	L.1.0		L.001	L.001	L.001	L.1	L.02	MINIMUM
HIGH	2.00	7.5		L.001	L.01	.015	.8	.16	MAXIMUM
AVERAGE	1.15	2.1*				.006*	.3*	.06*	MOYENNE
STD.DEV.	.47	1.7*				.006*	.3*	.05*	ECART-TYPE
PERCNT:10TH	.5	L.1.0				L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	.70	1.0			L.002	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.20	1.5		L.001	L.010	.004*	L.1	L.02	50 <sup>e</sup> MEDIANE
75TH	1.6	2.0			L.010	.013	.4	.11	75 <sup>e</sup>
90TH	1.7	3.5				.014	.8	.14	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		17(0)	14(0)	6(6)	15(15)	3(2)	14(10)		ECHANTILLONS(IND.)
LOW		.02	.02	L.01	L.001	L.001	L.003		MINIMUM
HIGH		.23	.14	L.05	L.001	.006	.005		MAXIMUM
AVERAGE		.11	.05			.0027*	.003*		MOYENNE
STD.DEV.		.06	.04			.0029*	.001*		ECART-TYPE
PERCNT:10TH		.03	.02		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.06	.03	L.05	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.10	.04	L.050	L.001	L.001	L.003		50 <sup>e</sup> MEDIANE
75TH		.13	.06	L.05	L.001		.003		75 <sup>e</sup>
90TH		.21	.13		L.001		.004		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportant des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0008** LAT. **57 D 25M 0 S** LONG. **111 D 13M 16 S**

UTM **12 486730E 6363570 N**  
JUL 29, 1976 TO/A MAY 04, 1978

MUSKEG RIVER - 7 MILES UPSTREAM FROM  
STANLEY CREEK - AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(18)</b>	<b>18(17)</b>	<b>18(2)</b>	<b>14(1)</b>	<b>15(6)</b>	<b>15(12)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.008</b>	<b>.28</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0002</b>	<b>L.0002</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.598</b>	<b>5.05</b>	<b>L.002</b>	<b>.002</b>	<b>.015</b>	<b>.043</b>	<b>.005</b>	<b>.0009</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.182</b>	<b>1.61</b>		<b>.002*</b>	<b>.005*</b>	<b>.009*</b>	<b>.0008*</b>	<b>.0004*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.193</b>	<b>1.44</b>		<b>.000*</b>	<b>.005*</b>	<b>.010*</b>	<b>.0012*</b>	<b>.0002*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.015</b>	<b>.37</b>	<b>L.002</b>	<b>L.002</b>	<b>L.001</b>	<b>.002</b>	<b>L.0002</b>	<b>L.0002</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.034</b>	<b>.50</b>	<b>L.002</b>	<b>L.002</b>	<b>.002</b>	<b>.004</b>	<b>.0003</b>	<b>L.0002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.074</b>	<b>.97</b>	<b>L.002</b>	<b>L.002</b>	<b>.003</b>	<b>.007</b>	<b>L.0005</b>	<b>L.0002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.33</b>	<b>2.45</b>	<b>L.002</b>	<b>L.002</b>	<b>.009</b>	<b>.009</b>	<b>.0007</b>	<b>L.0005</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.52</b>	<b>4.45</b>	<b>L.002</b>	<b>L.002</b>	<b>.015</b>	<b>.010</b>	<b>L.001</b>	<b>.0007</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			<b>8(8)</b>		<b>18(18)</b>			<b>18(13)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0001</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>L.01</b>		<b>L.001</b>			<b>.0043</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>								<b>.0004*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>								<b>.0010*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					<b>L.001</b>			<b>L.0001</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>					<b>L.001</b>			<b>.0002</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>18(14)</b>	<b>18(0)</b>	<b>5(0)</b>	<b>5(0)</b>	<b>4(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>17(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.002</b>	<b>2.</b>	<b>0.</b>	<b>0.</b>	<b>360.</b>	<b>0.</b>	<b>79.</b>	<b>79.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.009</b>	<b>16.</b>	<b>11.</b>	<b>46.</b>	<b>1200.</b>	<b>78.</b>	<b>369.</b>	<b>331.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.003*</b>	<b>4.</b>	<b>4.</b>	<b>22.</b>	<b>940.</b>	<b>12.</b>	<b>236.</b>	<b>203.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.002*</b>	<b>3.</b>	<b>5.</b>	<b>22.</b>	<b>398.</b>	<b>21.</b>	<b>93.</b>	<b>82.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.002</b>	<b>2.</b>				<b>1.</b>	<b>97.</b>	<b>117.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.002</b>	<b>2.</b>	<b>0.</b>	<b>5.</b>	<b>680.</b>	<b>3.</b>	<b>172.</b>	<b>130.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.002</b>	<b>4.</b>	<b>2.</b>	<b>13.</b>	<b>1100.</b>	<b>5.</b>	<b>221.</b>	<b>200.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.002</b>	<b>4.</b>	<b>8.</b>	<b>46.</b>	<b>1200.</b>	<b>8.</b>	<b>332.</b>	<b>278.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.004</b>	<b>8.</b>				<b>58.</b>	<b>357.</b>	<b>318.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0009 LAT 57° 22' 48" S LONG 111° 16' 44" S

UTM 12 483240 6359500  
SEP 10 1976 TO/A JUL 18 1977

MUSKEG TRIBUTARY .3.5 MILES UPSTREAM  
FROM STANLEY CREEK AND .5 MILE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH. UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	10(0)	7(0)	3(0)	10(0)		ECHANTILLONS(IND.)
LOW	112.	62.	51.0	35.	.7	7.4	54.4		MINIMUM
HIGH	460.	256.	239.8	130.	180.	7.7	250.0		MAXIMUM
AVERAGE	288.	161.	146.1	93.	35.4		154.0		MOYENNE
STD.DEV.	119.	66.	64.8	29.	65.9		66.8		ECART-TYPE
PERCNT:10TH	141.	81.	66.8	53.			72.7		10 <sup>e</sup> PERCNT
25TH	211.	118.	105.7	80.	2.1		108.3		25 <sup>e</sup>
MEDIAN 50TH	270.	149.	133.9	93.	2.8	7.6	143.8		50 <sup>e</sup> MEDIANE
75TH	410.	233.	214.5	110.	47.0		230.0		75 <sup>e</sup>
90TH	450.	247.	234.9	130.			241.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	ECHANTILLONS(IND.)
LOW	.3	4.6	13.5	4.2	0.	66.	.5	.5	MINIMUM
HIGH	2.2	17.5	69.0	16.4	0.	305.	2.7	8.6	MAXIMUM
AVERAGE	1.2	8.8	41.00	10.6	0.	188.	1.6	5.3	MOYENNE
STD.DEV.	.5	3.5	19.83	3.8	0.	81.	.7	2.7	ECART-TYPE
PERCNT:10TH	.4	5.5	17.50	5.6	0.	89.	.8	.8	10 <sup>e</sup> PERCNT
25TH	1.0	7.0	27.5	8.5	0.	132.	1.2	3.5	25 <sup>e</sup>
MEDIAN 50TH	1.2	8.0	35.75	9.7	0.	175.	1.3	6.0	50 <sup>e</sup> MEDIANE
75TH	1.5	10.0	62.0	14.5	0.	280.	2.2	6.7	75 <sup>e</sup>
90TH	1.8	13.8	68.50	15.5	0.	294.	2.7	8.3	90 <sup>e</sup>
SECONDARY CODE	02L	02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	10(0)	10(2)		10(0)		10(4)	10(0)		ECHANTILLONS(IND.)
LOW	.35	.004		.02		.004	.02		MINIMUM
HIGH	2.62	.048		1.58		.03	.34		MAXIMUM
AVERAGE	1.522	.019*		.459		.014*	.148		MOYENNE
STD.DEV.	.823	.015*		.595		.008*	.120		ECART-TYPE
PERCNT:10TH	.425	.007*		.025		.006	.025		10 <sup>e</sup> PERCNT
25TH	.92	L.01		.08		L.01	.042		25 <sup>e</sup>
MEDIAN 50TH	1.530	.010		.125		L.010	.130		50 <sup>e</sup> MEDIANE
75TH	2.40	.03		.84		.02	.24		75 <sup>e</sup>
90TH	2.555	.044		1.490		.025	.330		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0009** LAT. **57 D 22M 48 S** LONG. **111 D 16M 44 S**

UTM **12 483240E 6359500 N**  
SEP 10, 1976 TO/A JUL 18, 1977

MUSKEG TRIBUTARY -3.5 MILES UPSTREAM  
FROM STANLEY CREEK AND .5 MILE

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	10(0)	10(0)	10(0)	9(0)	4(0)	10(0)	8(0)	3(3)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	1.4	9.	10.	9.	4.7	70.	.06	L.0	<b>MINIMUM</b>
<b>HIGH</b>	15.7	45.	53.5	37.0	10.0	129.	.13	L.0	<b>MAXIMUM</b>
<b>AVERAGE</b>	9.06	29.6	30.1	25.8	7.0	86.	.09		<b>MOYENNE</b>
<b>STD.DEV.</b>	4.99	10.0	13.7	10.0	2.5	18.	.02		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	2.55	14.5	13.5			71.			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	4.5	24.	20.	20.	4.8	73.	.07		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	10.60	31.5	28.0	29.0	6.5	82.	.09	L.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	13.7	34.	43.0	32.	9.0	90.	.10		<b>75<sup>e</sup></b>
<b>90TH</b>	14.85	41.8	49.3			116.			<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	10(0)	7(0)		3(2)	4(4)	7(2)	7(4)	7(6)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	1.15	1.0		L.001	L.01	L.001	L.1	L.02	<b>MINIMUM</b>
<b>HIGH</b>	2.1	6.5		.002	L.01	.023	.7	.04	<b>MAXIMUM</b>
<b>AVERAGE</b>	1.55	3.7		.0013*		.007*	.2*	.02*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.28	2.1		.0006*		.008*	.2*	.01*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	1.20								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	1.40	2.0			L.010	L.001	L.1	L.02	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	1.50	3.0		L.001	L.010	.004	L.1	L.02	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.65	5.5			L.010	.013	.3	L.02	<b>75<sup>e</sup></b>
<b>90TH</b>	2.00								<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		10(0)	7(1)		9(7)	1(1)	7(6)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		.02	L.01		L.001	L.001	L.003		<b>MINIMUM</b>
<b>HIGH</b>		.30	.12		.002	L.001	.006		<b>MAXIMUM</b>
<b>AVERAGE</b>		.14	.05*		.001*		.003*		<b>MOYENNE</b>
<b>STD.DEV.</b>		.10	.04*		.000*		.001*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.03							<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.06	.02		L.001		L.003		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.14	.03		L.001		L.003		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.18	.09		L.001		L.003		<b>75<sup>e</sup></b>
<b>90TH</b>		.30							<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0009 LAT. 57 D 22M 48 S LONG 111 D 16M 44 S

UTM 12 483240: 6359500  
SEP 10 1976 TO A JUL 18 1977MUSKEG TRIBUTARY .35 MILES UPSTREAM  
FROM STANLEY CREEK AND .5 MILE

	250001L MANGANESE EXTRBL.	261001L IRON EXTRBL.	270001L COBALT EXTRBL.	280001L NICKEL EXTRBL.	290001L COPPER EXTRBL.	300001L ZINC EXTRBL.	310001L ARSENIC DISSOLVED	341001L SELENIUM DISSOLVED	
	MN MG/L	FE MG/L	CO MG/L	N MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	10(8)	10(8)	10(0)	7(0)	9(7)	9(7)	ECHANTILLONS(IND.)
LOW	.018	.78	L.002	L.002	.001	.006	L.0002	.0002	MINIMUM
HIGH	.72	19.5	.004	.012	.120	.032	L.001	L.0005	MAXIMUM
AVERAGE	.283	7.71	.002*	.004*	.033	.015	.0007*	.0004*	MOYENNE
STD.DEV.	.285	8.13	.001*	.004*	.046	.009	.0003*	.0001*	ECART-TYPE
PERCNT:10TH	.025	1.04	L.002	L.002	.001				10 <sup>e</sup> PERCNT
25TH	.047	1.30	L.002	L.002	.001	.006	L.0005	L.0005	25 <sup>e</sup>
MEDIAN 50TH	.132	3.70	L.002	L.002	.011	.013	.0008	L.0005	50 <sup>e</sup> MEDIANE
75TH	.58	19.0	L.002	L.002	.063	.022	L.001	L.0005	75 <sup>e</sup>
90TH	.705	19.25	.003	.010	.112				90 <sup>e</sup>
SECONDARY CODE					05L06L				CODE DE SECUN.

	481001L STRONTIUM EXTRBL.	423001L MOLYBDENUM EXTRBL.	473001L SILVER EXTRBL.	481001L CADMIUM DISSOLVED	483001L CADMIUM EXTRBL.	513001L ANTIMONY EXTRBL.	563001L BARIUM EXTRBL.	800101L MERCURY TOTAL	
	SR MG/L	MO MG/L	AG MG/L	MG/L	MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			8(6)		10(9)			10(9)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			.01		.001			.0003	MAXIMUM
AVERAGE			.00*		.001*			.0001*	MOYENNE
STD.DEV.			.00*		.000*			.0001*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			.00*		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.00		L.001			L.0001	75 <sup>e</sup>
90TH					.001*			.0002*	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECUN.

	823001L LEAD EXTRBL.	020001L ODOUR THRESHOLD NUMBER	360001L COLIFORMS FECAL	360001L COLIFORMS TOTAL	369001L STD. PLATE COUNT 20 DEG.C. BACT DENS	104001L RESIDUE NONFILTR	104501L RESIDUE FILTERABLE	105001L RESIDUE FIXED FILTERABLE	
	Pb MG/L	TON	MPN NO. 100ML	MPN NO. 100ML	NO. ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	10(7)	10(0)	7(0)	7(1)	7(2)	10(0)	10(0)	10(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	5.	490.	2.	71.	54.	MINIMUM
HIGH	.013	8.	49.	G2400.	G9999.	59.	289.	229.	MAXIMUM
AVERAGE	.004*	3.	19.	414.*	4827.*	20.	179.	139.	MOYENNE
STD.DEV.	.004*	2.	21.	884.*	4169.*	19.	74.	65.	ECART-TYPE
PERCNT:10TH	L.002	2.				3	94	68	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0	11	1100	6	128	84	25 <sup>e</sup>
MEDIAN 50TH	L.002	3.	9.	49.	3400.	13.	162.	128.	50 <sup>e</sup> MEDIANE
75TH	.003	4.	49	350	G9999	22	257.	206	75 <sup>e</sup>
90TH	.010	6.				55	282	223	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECUN.

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0010 LAT. 57 D 11M 21 S LONG. 111 D 23M 44 S

UTM 12 476090E 6338300 N  
JUL 28, 1976 TO/A OCT 11, 1977HARTLEY CREEK - SW FORK - .25 MILES  
FROM JUNCTION WITH SE FORK - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	9(0)	9(1)	9(0)	9(0)	6(0)	4(0)	9(0)		ECHANTILLONS(IND.)
LOW	117.	67.	51.0	80.	.8	7.9	57.0		MINIMUM
HIGH	250.	147.	121.1	130.	25.	8.5	134.4		MAXIMUM
AVERAGE	184.	111.*	86.4	101.	6.0		103.5		MOYENNE
STD.DEV.	37.	22.*	18.9	20.	9.3		22.4		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	167.	106.	82.5	85.	2.4	7.9	101.0		25 <sup>e</sup>
MEDIAN 50TH	185.	110.	87.9	90.	2.4	8.0	102.0		50 <sup>e</sup> MEDIANE
75TH	188.	120.	93.3	110.	3.3	8.3	111.5		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(1)	ECHANTILLONS(IND.)
LOW	.1	6.9	13.5	4.2	0.	69.	1.0	L.5	MINIMUM
HIGH	2.2	14.5	32.0	10.0	0.	164.	3.0	8.3	MAXIMUM
AVERAGE	.7	11.8	23.17	6.9	0.	126.	1.8	4.1*	MOYENNE
STD.DEV.	.6	2.3	5.18	1.6	0.	27.	.8	3.0*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.4	11.0	22.0	6.2	0.	123.	1.1	.6	25 <sup>e</sup>
MEDIAN 50TH	.5	12.0	24.0	6.8	0.	124.	1.8	4.6	50 <sup>e</sup> MEDIANE
75TH	.9	13.0	25.0	7.5	0.	136.	2.3	6.4	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
SAMPLES(FLAGS)	9(0)	9(5)		9(0)		8(4)	9(0)		ECHANTILLONS(IND.)
LOW	.30	L.003		.01		L.005	.01		MINIMUM
HIGH	2.28	.02		.09		.01	.14		MAXIMUM
AVERAGE	1.074	.009*		.052		.008*	.037		MOYENNE
STD.DEV.	.655	.005*		.025		.002*	.041		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.60	.006		.04		.006	.018		25 <sup>e</sup>
MEDIAN 50TH	.94	L.01		.06		.009*	.02		50 <sup>e</sup> MEDIANE
75TH	1.41	.01		.06		L.010	.028		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0010 LAT 57 D 11 M 21 S LONG 111 D 23 M 44 S

UTM 12 476090 6338300 N

JUL 28 1976 TO/A OCT 11 1977

HARTLEY CREEK - SW FORK - .25 MILES  
FROM JUNCTION WITH SE FORK - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COO	09105L FLUORIDE DISSOLVED	18101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	9(0)	9(0)	9(0)	7(0)	7(0)	9(0)	7(0)	4(3)	ECHANTILLONS(IND.)
LOW	2.1	9.	11.	5.0	7.2	49.	.06	L.0	MINIMUM
HIGH	10.6	39.	29.5	31.	14.4	242.	.09	.1	MAXIMUM
AVERAGE	6.51	26.1	18.7	21.3	9.9	85.	.07	.0*	MOYENNE
STD.DEV.	3.29	8.7	5.8	10.8	2.8	61.	.01	.0*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	3.2	22.5	16.	8.	7.5	53.	.06	L.0	25 <sup>e</sup>
MEDIAN 50TH	7.5	26.0	19.0	24.0	9.1	63.	.07	L.0	50 <sup>e</sup> MEDIANE
75TH	9.3	31.	22.0	30.0	12.2	86.	.08	.0*	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	9(0)	7(0)		3(2)	4(4)	6(2)	6(1)	7(4)	ECHANTILLONS(IND.)
LOW	1.20	1.5		L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	1.80	13.0		.011	L.01	.032	3.3	.08	MAXIMUM
AVERAGE	1.55	5.6		.0043*		.010*	1.4*	.03*	MOYENNE
STD.DEV.	.18	4.9		.0058*		.013*	1.5*	.02*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.5	2.0			L.010	L.001	.4	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.55	3.0		L.001	L.010	.003	.6	L.02	50 <sup>e</sup> MEDIANE
75TH	1.7	12.			L.010	.021	3.3	.03	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		9(0)	7(1)	1(1)	8(8)	1(1)	7(7)		ECHANTILLONS(IND.)
LOW		.01	.02	L.05	L.001	L.01	L.003		MINIMUM
HIGH		.30	.35	L.05	L.001	L.01	L.003		MAXIMUM
AVERAGE		.10	.10*						MOYENNE
STD.DEV.		.10	.11*						ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.03	.04		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.08	.07		L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.13	.09		L.001		L.003		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0010** LAT. **57 D 11M 21 S** LONG. **111 D 23M 44 S**

UTM **12 476090 E 6338300 N**  
JUL 28, 1976 TO/A OCT 11, 1977

HARTLEY CREEK - SW FORK - .25 MILES  
FROM JUNCTION WITH SE FORK - AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	9(0)	9(0)	7(7)	9(6)	9(2)	7(1)	8(4)	8(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.012	.28	L.002	L.002	L.001	L.001	L.0002	L.0002	<b>MINIMUM</b>
<b>HIGH</b>	.08	.91	L.002	.008	.010	.013	.0136	L.0005	<b>MAXIMUM</b>
<b>AVERAGE</b>	.030	.53		.004*	.004*	.008*	.0034*	.0004*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.024	.22		.003*	.004*	.004*	.0050*	.0002*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.013	.35	L.002	L.002	.002	.004	.0004*	.0002*	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.024	.42	L.002	L.002	.002	.008	L.0010	L.0005	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.03	.68	L.002	.005	.004	.012	.0054	L.0005	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE					05L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			6(6)	1(1)	9(9)			9(9)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			L.00	L.001	L.001			L.0001	<b>MINIMUM</b>
<b>HIGH</b>			L.01	L.001	L.001			L.0002	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			L.00		L.001			L.0001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			L.00		L.001			L.0001	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			L.01		L.001			L.0001	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE				02L	02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	9(7)	9(0)	6(0)	6(0)	5(0)	9(1)	9(0)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.002	2.	0.	2.	920.	L0.	77.	63.	<b>MINIMUM</b>
<b>HIGH</b>	.003	4.	49.	170.	00000.	13.	173.	136.	<b>MAXIMUM</b>
<b>AVERAGE</b>	.002*	3.	10.	76.	22224.	6.*	123.	90.	<b>MOYENNE</b>
<b>STD.DEV.</b>	.000*	1.	19.	76.	43538.	5.*	26.	26.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.002	2.	0.	11.	1100.	3.	115.	69.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.002	2.	3.	52.	2500.	4.	123.	83.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.002	4.	5.	170.	6600.	9.	132.	112.	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0011 LAT. 57 D 9 M 23 S LONG 111 D 23 M 27 S

UTM 12 476370E 6334650N

JUL 28 1976 TO AUG 20 1977

HARTLEY CREEK SE FORK .25 MILES  
FROM JUNCTION WITH SW FORK AOSERP

	02041L SPECIFIC CONDUCT.	00243L TOTAL DISSOLVED SOLIDS (CALCD.)	00244L HARDNESS TOTAL (CALCD.) CaCO3	02011L COLOUR APPARENT	02073L TURBIDITY	10304F PH	10101L ALKALINITY TOTAL	00245L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL UNITS	JTU	PH UNITS	CaCO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	9(0)	9(0)	9(0)	9(0)	6(0)	3(0)	9(0)		ECHANTILLONS(IND.)
LOW	101.	57.	43.1	60.	.6	7.5	49.6		MINIMUM
HIGH	480.	266.	248.0	140.	23.	8.1	256.		MAXIMUM
AVERAGE	211.	121.	101.2	94.	6.8		113.9		MOYENNE
STD.DEV.	112	60	60.0	26.	8.6		59.9		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	151.	99	75.9	80.	1.6		89.0		25 <sup>e</sup>
MEDIAN 50TH	175.	104.	84.6	80.	2.7	8.0	94.4		50 <sup>e</sup> MEDIANE
75TH	250.	133	111.1	115.	10.0		134.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	Na MG/L	Ca MG/L	Mg MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW	.0	6.0	11.5	3.5	0.	60.	.5	.5	MINIMUM
HIGH	1.8	18.0	68.0	19.	0.	312.	2.3	10.0	MAXIMUM
AVERAGE	.6	11.3	27.39	8.0	0.	139.	1.3	4.4	MOYENNE
STD.DEV.	5	3.5	16.51	4.6	0.	73.	.6	3.4	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	4	10.0	20.5	6.0	0.	108.	.8	.6	25 <sup>e</sup>
MEDIAN 50TH	.6	10.5	22.5	6.6	0.	115.	1.2	5.1	50 <sup>e</sup> MEDIANE
75TH	7	13.0	30.0	8.8	0.	163.	1.5	6.8	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L					03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L	
SAMPLES(FLAGS)	9(0)	9(5)		9(0)		8(6)	9(2)		ECHANTILLONS(IND.)
LOW	.45	L.003		.03		L.003	L.005		MINIMUM
HIGH	3.74	.024		.34		.015	.15		MAXIMUM
AVERAGE	1.459	.012*		.141		.008*	.037*		MOYENNE
STD.DEV.	1.057	.006*		.094		.004*	.046*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.83	L.01		.09		.004*	.01		25 <sup>e</sup>
MEDIAN 50TH	1.29	L.01		.14		L.010	.019		50 <sup>e</sup> MEDIANE
75TH	1.46	.01		.17		L.010	.05		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0011** LAT. **57 D 9 M 23 S** LONG. **111 D 23 M 27 S**

UTM **12 476370 E 6334650 N**  
JUL 28, 1976 TO/A JUL 20, 1977

HARTLEY CREEK - SE FORK - .25 MILES  
FROM JUNCTION WITH SW FORK - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SI02 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>9(0)</b>	<b>9(0)</b>	<b>9(0)</b>	<b>7(0)</b>	<b>5(0)</b>	<b>9(0)</b>	<b>6(0)</b>	<b>4(4)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.8</b>	<b>10.</b>	<b>9.</b>	<b>10.</b>	<b>6.</b>	<b>47.</b>	<b>.06</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>23.6</b>	<b>33.</b>	<b>66.</b>	<b>28.</b>	<b>10.</b>	<b>437.</b>	<b>.09</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>8.99</b>	<b>25.1</b>	<b>24.6</b>	<b>21.5</b>	<b>7.6</b>	<b>128.</b>	<b>.07</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>6.91</b>	<b>6.7</b>	<b>17.3</b>	<b>5.6</b>	<b>1.5</b>	<b>124.</b>	<b>.01</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>3.2</b>	<b>24.</b>	<b>16.</b>	<b>20.5</b>	<b>6.9</b>	<b>58.</b>	<b>.06</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>9.4</b>	<b>27.</b>	<b>17.</b>	<b>22.</b>	<b>6.9</b>	<b>87.</b>	<b>.07</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>11.9</b>	<b>28.5</b>	<b>30.</b>	<b>24.</b>	<b>8.0</b>	<b>101.</b>	<b>.08</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>9(0)</b>	<b>6(0)</b>		<b>3(3)</b>	<b>4(4)</b>	<b>6(5)</b>	<b>6(3)</b>	<b>6(6)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.30</b>	<b>1.0</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.15</b>	<b>16.0</b>		<b>L.001</b>	<b>L.01</b>	<b>.013</b>	<b>3.9</b>	<b>L.02</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.65</b>	<b>6.3</b>				<b>.003*</b>	<b>.8*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.28</b>	<b>5.5</b>				<b>.005*</b>	<b>1.5*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.50</b>	<b>2.0</b>			<b>L.010</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.6</b>	<b>5.0</b>		<b>L.001</b>	<b>L.010</b>	<b>L.001</b>	<b>.1*</b>	<b>L.02</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.85</b>	<b>8.5</b>			<b>L.010</b>	<b>L.001</b>	<b>.7</b>	<b>L.02</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>		<b>9(0)</b>	<b>6(1)</b>		<b>8(8)</b>	<b>1(1)</b>	<b>8(7)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.01</b>	<b>.04</b>		<b>L.001</b>	<b>L.01</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.25</b>	<b>.59</b>		<b>L.001</b>	<b>L.01</b>	<b>.008</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.10</b>	<b>.15*</b>				<b>.004*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.08</b>	<b>.22*</b>				<b>.002*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.05</b>	<b>.04</b>		<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.12</b>	<b>.05*</b>		<b>L.001</b>		<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.13</b>	<b>.13</b>		<b>L.001</b>		<b>L.003</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE			02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0011 LAT 57 D 9 M 23 S LONG 111 D 23 M 27 S

UTM 12 4763701 63346504  
JUL 28 1976 TO/A JUL 20 1977HARTLEY CREEK - SE FORK - .25 MILES  
FROM JUNCTION WITH SW FORK - AOSERP

	25304L MANGANESE EXTRBL. MN MG/L	26304L IRON EXTRBL. FE MG/L	27302L COBALT EXTRBL. CO MG/L	28302L NICKEL EXTRBL. NI MG/L	29301L COPPER EXTRBL. CU MG/L	30305L ZINC EXTRBL. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	9(0)	9(0)	6(5)	9(7)	9(3)	6(0)	8(5)	8(5)	ECHANTILLONS(IND.)
LOW	.008	.18	L.002	L.002	L.001	.004	L.0002	.0002	MINIMUM
HIGH	.535	3.00	.008	.006	.019	.015	L.005	.0014	MAXIMUM
AVERAGE	.148	.96	.003*	.003*	.005*	.009	.0012*	.0005*	MOYENNE
STD.DEV.	.225	1.06	.002*	.001*	.007*	.004	.0016*	.0004*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.010	.21	L.002	L.002	L.001	.005	.0004*	.0004*	25 <sup>e</sup>
MEDIAN 50TH	.022	.48	L.002	L.002	.002	.009	.0007	L.0005	50 <sup>e</sup> MEDIANE
75TH	.180	1.16	L.002	L.002	.002	.012	L.0010	L.0005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL. SR MG/L	42301L MOLYBDENUM EXTRBL. MO MG/L	47301L SILVER EXTRBL. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBL. CD MG/L	51301L ANTIMONY EXTRBL. SB MG/L	56301L BARIUM EXTRBL. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			6(6)	1(1)	8(8)			9(8)	ECHANTILLONS(IND.)
LOW			L.00	L.001	L.001			L.0001	MINIMUM
HIGH			L.01	L.001	L.001			L.0002	MAXIMUM
AVERAGE								.0001*	MOYENNE
STD.DEV.								.0000*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0001	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

	82301L LEAD EXTRBL. PB MG/L	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	9(9)	9(0)	4(0)	4(0)	3(0)	9(1)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	1200.	L0.	63.	48.	MINIMUM
HIGH	L.002	4.	49.	79.	46000.	82.	302.	237.	MAXIMUM
AVERAGE		2.	19.	38.	26067.	12.*	133.	101.	MOYENNE
STD.DEV.		1.	22.	34.	22804.	26.*	69.	56.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.	2.	12.		1.	106.	73.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	14.	36.	31000.	2.	109.	78.	50 <sup>e</sup> MEDIANE
75TH	L.002	2.	36.	64.		8.	136.	97.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0012** LAT. **57 D 15M 8 S** LONG. **111 D 21M 54 S**UTM **12 477980 E 6345300 N**  
JAN 25, 1977 TO/A JUL 20, 1977TRIBUTARY TO MUSKEG RIVER  
3 MILES UPSTREAM FROM HARTLEY CREEK

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>3(0)</b>	<b>7(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>110.</b>	<b>65.</b>	<b>45.2</b>	<b>90.</b>	<b>1.6</b>	<b>7.6</b>	<b>54.0</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>600.</b>	<b>333.</b>	<b>279.5</b>	<b>160.</b>	<b>92.0</b>	<b>8.0</b>	<b>323.0</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>314.</b>	<b>181.</b>	<b>142.7</b>	<b>133.</b>	<b>15.9</b>		<b>169.6</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>201.</b>	<b>110.</b>	<b>97.0</b>	<b>22.</b>	<b>33.6</b>		<b>109.3</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>155.</b>	<b>98.</b>	<b>68.4</b>	<b>130.</b>	<b>2.0</b>		<b>88.0</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>195.</b>	<b>114.</b>	<b>78.8</b>	<b>135.</b>	<b>3.1</b>	<b>7.7</b>	<b>101.4</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>510.</b>	<b>299.</b>	<b>243.4</b>	<b>150.</b>	<b>5.8</b>		<b>284.0</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.1</b>	<b>8.3</b>	<b>11.5</b>	<b>4.0</b>	<b>0.</b>	<b>66.</b>	<b>.6</b>	<b>5.5</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.5</b>	<b>30.0</b>	<b>74.0</b>	<b>23.0</b>	<b>0.</b>	<b>394.</b>	<b>5.0</b>	<b>10.1</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.3</b>	<b>19.3</b>	<b>37.50</b>	<b>11.9</b>	<b>0.</b>	<b>207.</b>	<b>2.2</b>	<b>7.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.9</b>	<b>8.6</b>	<b>25.77</b>	<b>7.9</b>	<b>0.</b>	<b>133.</b>	<b>1.5</b>	<b>1.5</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.3</b>	<b>13.0</b>	<b>18.0</b>	<b>5.7</b>	<b>0.</b>	<b>107.</b>	<b>.9</b>	<b>6.6</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.4</b>	<b>15.0</b>	<b>20.5</b>	<b>6.7</b>	<b>0.</b>	<b>124.</b>	<b>1.8</b>	<b>7.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.9</b>	<b>27.5</b>	<b>64.5</b>	<b>20.0</b>	<b>0.</b>	<b>346.</b>	<b>3.2</b>	<b>8.6</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	02L	02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 + NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>7(0)</b>	<b>7(4)</b>		<b>7(0)</b>		<b>7(2)</b>	<b>7(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.92</b>	<b>L.003</b>		<b>.01</b>		<b>.004</b>	<b>.020</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>2.84</b>	<b>.02</b>		<b>.89</b>		<b>.06</b>	<b>.56</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.766</b>	<b>.009*</b>		<b>.324</b>		<b>.022*</b>	<b>.152</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.754</b>	<b>.006*</b>		<b>.374</b>		<b>.021*</b>	<b>.196</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.06</b>	<b>L.003</b>		<b>.03</b>		<b>.009</b>	<b>.02</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.76</b>	<b>L.01</b>		<b>.11</b>		<b>L.01</b>	<b>.05</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.40</b>	<b>.01</b>		<b>.81</b>		<b>.04</b>	<b>.20</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0012 LAT 57 D 15M 8 S LONG. 111 D 21M 54 S

UTM 12 477980E 6345300N  
JAN 25 1977 TO A JUL 20 1977

TRIBUTARY TO MUSKEG RIVER  
3 MILES UPSTREAM FROM HARTLEY CREEK

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	06101L CARBON DISSOLVED ORGANIC C	08102F OXYGEN DISSOLVED	08101L OXYGEN TOTAL COO	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	MG/L	MG/L	MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	7(0)	4(0)	7(0)	5(0)		ECHANTILLONS(IND.)
LOW	1.8	10.	10.5	10.	6.1	62.	.04		MINIMUM
HIGH	29.8	41.	66.	40.	12.2	143.	.12		MAXIMUM
AVERAGE	12.31	30.3	31.6	29.2	7.8	101.	.08		MOYENNE
STD.DEV.	12.05	11.0	23.3	10.6	2.9	36.	.03		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	2.7	20.5	11.	20.5	6.2	63.	.06		25 <sup>e</sup>
MEDIAN 50TH	4.7	33.5	17.	33.	6.4	95.	.07		50 <sup>e</sup> MEDIANE
75TH	25.0	37.	56.	37.	9.4	136.	.09		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	J6711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	7(0)	7(0)				5(2)	5(2)	5(5)	ECHANTILLONS(IND.)
LOW	1.6	1.0				L.001	L.1	L.02	MINIMUM
HIGH	2.65	5.0				.012	6.6	L.02	MAXIMUM
AVERAGE	2.09	2.9				.004*	2.0*		MOYENNE
STD.DEV.	.41	1.3				.005*	2.8*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.85	2.0				L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.95	3.0				.001	.7	L.02	50 <sup>e</sup> MEDIANE
75TH	2.65	3.5				.004	2.5	L.02	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		7(0)	5(1)		7(7)		5(5)		ECHANTILLONS(IND.)
LOW		.08	L.01		L.001		L.003		MINIMUM
HIGH		.32	1.44		L.001		L.003		MAXIMUM
AVERAGE		.16	.33*						MOYENNE
STD.DEV.		.09	.62*						ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.09	.04		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.12	.05		L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.24	.12		L.001		L.003		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0012** LAT. **57 D 15M 8 S** LONG. **111 D 21M 54 S**

UTM **12 477980E 6345300 N**  
JAN 25, 1977 TO/A JUL 20, 1977

TRIBUTARY TO MUSKEG RIVER  
3 MILES UPSTREAM FROM HARTLEY CREEK

	25304L MANGANESE EXTRBLE. MN MG/L	26304L IRON EXTRBLE. FE MG/L	27302L COBALT EXTRBLE. CO MG/L	28302L NICKEL EXTRBLE. NI MG/L	29301L COPPER EXTRBL. CU MG/L	30305L ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	7(0)	7(0)	5(4)	7(5)	7(1)	5(0)	7(5)	7(6)	ECHANTILLONS(IND.)
LOW	.002	.06	L.002	L.002	L.001	.006	L.0002	L.0002	MINIMUM
HIGH	3.50	12.2	.005	.013	.030	.029	.0024	L.0005	MAXIMUM
AVERAGE	.823	2.60	.003*	.005*	.008*	.014	.0009*	.0004*	MOYENNE
STD.DEV.	1.410	4.55	.001*	.005*	.010*	.009	.0007*	.0001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.023	.27	L.002	L.002	.003	.008	L.0005	.0002	25 <sup>e</sup>
MEDIAN 50TH	.041	.27	L.002	L.002	.003	.012	.0005	L.0005	50 <sup>e</sup> MEDIANE
75TH	2.10	4.75	L.002	.010	.011	.017	L.001	L.0005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			5(4)		7(7)			7(7)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		L.001			L.0001	MAXIMUM
AVERAGE			.00*						MOYENNE
STD.DEV.			.00*						ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	7(7)	7(0)	2(1)	2(0)	2(0)	7(1)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	L2.	2.	4800.	L0.	68.	49.	MINIMUM
HIGH	L.002	32.	13.	110.	30000.	114.	376.	308.	MAXIMUM
AVERAGE	7.	7.*	7.*	56.	17400.	20.*	201.	157.	MOYENNE
STD.DEV.		11.	8.*	76.	17819.	42.*	128.	111.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.				2.	110.	73.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	7.*	56.	17400.	3.	117.	85.	50 <sup>e</sup> MEDIANE
75TH	L.002	4.				14.	336.	281.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0013 LAT 57° 15' 34" S LONG 111° 27' 53" W

ITEM 12 471970F 6346150A

JUL 27 1976 TO/A APR 17 1979

HARTLEY CREEK - ONE QUARTER MILE ABOVE  
CONFLUENCE WITH MUSKIE RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH-UNITS	10101L ALKALINITY TOTAL CACO3	00210L SATURATION INDEX (CALCD.) PH-UNITS	
SUBM ID	USIE/CM	MG/L	MG/L				MG/L		
SAMPLES(FLAGS)	35(0)	35(1)	35(0)	20(0)	33(0)	20(0)	35(0)		ECHANTILLONS(IND.)
LOW	100.	58.	43.1	30.	.9	6.8	46.4		MINIMUM
HIGH	660.	375.	317.0	130.	320.	8.6	348.2		MAXIMUM
AVERAGE	292.	177.*	145.1	83.	16.0		163.4		MOYENNE
STD.DEV.	166.	99.*	83.6	31.	55.0		91.3		ECART-TYPE
PERCNT:10TH	125.	89.	72.6	35.	1.9	7.1	79.7		10 <sup>e</sup> PERCNT
25TH	189.	106.	87.5	60.	2.5	7.6	97.6		25 <sup>e</sup>
MEDIAN 50TH	214.	136.	110.7	90.	3.5	7.8	128.0		50 <sup>e</sup> MEDIANE
75TH	430.	255.	208.2	100.	8.3	8.1	241.4		75 <sup>e</sup>
90TH	550.	344.	284.2	125.	21.	8.3	312.8		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K	11101L SODIUM DISSOLVED NA	20101L CALCIUM DISSOLVED CA	12102L MAGNESIUM DISSOLVED MG	06301L CARBONATE (CALCD.) CO3	06201L BICARBONATE (CALCD.) HCO3	17201L CHLORIDE DISSOLVED CL	16306L SULPHATE DISSOLVED SO4	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	35(1)	35(0)	35(0)	35(0)	35(14)	35(14)	35(0)	35(0)	ECHANTILLONS(IND.)
LOW	L0	5.5	11.5	3.5	0.	57.	1.0	.1	MINIMUM
HIGH	2.5	30.5	91.0	22.0	28.	424.	17.2	14.0	MAXIMUM
AVERAGE	.8*	16.5	39.68	11.2	1.*	197.*	5.8	5.0	MOYENNE
STD.DEV.	.6*	7.8	23.87	5.9	5.*	109.*	5.8	2.7	ECART-TYPE
PERCNT:10TH	.2	9.1	18.70	6.0	0.	Q97.	1.4	1.9	10 <sup>e</sup> PERCNT
25TH	.3	11.0	23.40	7.0	0.	Q119.	1.9	4.0	25 <sup>e</sup>
MEDIAN 50TH	.6	13.5	30.0	8.8	0.	156.	2.4	4.7	50 <sup>e</sup> MEDIANE
75TH	1.4	22.5	57.5	16.0	Q0.	294.	13.5	6.0	75 <sup>e</sup>
90TH	1.7	29.0	80.0	21.0	Q0.	381.	15.5	7.2	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN DISSOLVED KJELDAHL N	07110L NITROGEN DISSOLVED NO3 & NO2 N	07206L NITROGEN DISSOLVED NITRITE N	07555L NITROGEN DISSOLVED AMMONIA N	07651L NITROGEN DISSOLVED N	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P	15406L PHOSPHORUS TOTAL P	15407L PHOSPHATE TOTAL PO4	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	35(0)	35(9)	11(5)	33(0)		35(4)	35(1)		ECHANTILLONS(IND.)
LOW	.35	L.003	L.003	.01		.004	L.005		MINIMUM
HIGH	4.05	.420	.018	.29		.06	.33		MAXIMUM
AVERAGE	1.229	.053*	.007*	.093		.013*	.048*		MOYENNE
STD.DEV.	.756	.097*	.005*	.082		.010*	.059*		ECART-TYPE
PERCNT:10TH	.60	L.003	L.003	.02		L.005	.014		10 <sup>e</sup> PERCNT
25TH	.77	.004	L.003	.03		.008	.02		25 <sup>e</sup>
MEDIAN 50TH	1.08	.010	.004	.050		.010	.033		50 <sup>e</sup> MEDIANE
75TH	1.40	.052	.013	.13		.014	.05		75 <sup>e</sup>
90TH	2.16	.170	.014	.25		.02	.087		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0013** LAT. **57 D 15M 34 S** LONG. **111 D 27M 53 S**

UTM **12 471970E 6346150 N**  
JUL 27, 1976 TO/A APR 17, 1979

HARTLEY CREEK - ONE-QUARTER MILE ABOVE  
CONFLUENCE WITH MUSKEG RIVER

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	35(0)	35(0)	35(0)	33(0)	21(0)	35(0)	34(3)	5(5)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.7</b>	<b>9.</b>	<b>9.</b>	<b>8.</b>	<b>5.2</b>	<b>19.</b>	<b>L.05</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>16.8</b>	<b>96.0</b>	<b>74.0</b>	<b>89.0</b>	<b>14.4</b>	<b>195.</b>	<b>.24</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>8.81</b>	<b>27.6</b>	<b>34.6</b>	<b>26.3</b>	<b>9.4</b>	<b>79.</b>	<b>.11*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>4.66</b>	<b>14.2</b>	<b>20.2</b>	<b>13.7</b>	<b>2.4</b>	<b>41.</b>	<b>.06*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>3.3</b>	<b>14.5</b>	<b>15.5</b>	<b>13.5</b>	<b>6.5</b>	<b>40.</b>	<b>.05</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>5.00</b>	<b>23.5</b>	<b>18.5</b>	<b>22.</b>	<b>8.3</b>	<b>52.</b>	<b>.06</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>7.8</b>	<b>26.0</b>	<b>26.5</b>	<b>24.0</b>	<b>9.4</b>	<b>64.</b>	<b>.10</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>14.00</b>	<b>28.5</b>	<b>54.0</b>	<b>28.5</b>	<b>9.9</b>	<b>102.</b>	<b>.15</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>16.0</b>	<b>36.</b>	<b>71.0</b>	<b>34.</b>	<b>12.6</b>	<b>149.</b>	<b>.19</b>		<b>90<sup>e</sup></b>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	35(0)	34(13)	15(0)	4(4)	8(8)	16(9)	15(5)	34(10)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.5</b>	<b>L.10</b>	<b>5.</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.5</b>	<b>18.0</b>	<b>34.</b>	<b>L.001</b>	<b>L.01</b>	<b>.022</b>	<b>1.9</b>	<b>.28</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.41</b>	<b>2.5*</b>	<b>21.8</b>			<b>.003*</b>	<b>.5*</b>	<b>.12*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.44</b>	<b>3.3*</b>	<b>8.7</b>			<b>.005*</b>	<b>.5*</b>	<b>.08*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.85</b>	<b>L.0</b>	<b>11.</b>			<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.20</b>	<b>L.0</b>	<b>14.</b>	<b>L.0010</b>	<b>L.001</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.5</b>	<b>1.0</b>	<b>23.</b>	<b>L.0010</b>	<b>L.010</b>	<b>L.001</b>	<b>.4</b>	<b>.13</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.6</b>	<b>2.5</b>	<b>28.</b>	<b>L.0010</b>	<b>L.010</b>	<b>.003</b>	<b>.7</b>	<b>.19</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.9</b>	<b>5.</b>	<b>33.</b>			<b>.007</b>	<b>1.1</b>	<b>.23</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		35(0)	33(2)	9(9)	32(30)	3(3)	33(19)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.01</b>	<b>L.01</b>	<b>L.01</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.48</b>	<b>.51</b>	<b>L.05</b>	<b>.001</b>	<b>L.01</b>	<b>.008</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.13</b>	<b>.08*</b>		<b>.001*</b>		<b>.004*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.08</b>	<b>.10*</b>		<b>.000*</b>		<b>.002*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.06</b>	<b>.02</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.06</b>	<b>.03</b>	<b>L.01</b>	<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.13</b>	<b>.05</b>	<b>L.05</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.15</b>	<b>.07</b>	<b>L.05</b>	<b>L.001</b>		<b>.005</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.18</b>	<b>.20</b>		<b>L.001</b>		<b>.007</b>		<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0013 LAT 57 D 15M 34 S LONG 111 D 27M 53 S

UTM 12 471970E 6346150 N  
JUL 27 1976 TO A APR 17 1979HARTLEY CREEK - ONE QUARTER MILE ABOVE  
CONFLUENCE WITH MUSKEG RIVER

	26804L MANGANESE EXTRBLE. MN MG/L	26804L IRON EXTRBLE. FE MG/L	27102L COBALT EXTRBLE. CO MG/L	26802L NICKEL EXTRBLE. NI MG/L	29301L COPPER EXTRBLE. CU MG/L	36805L ZINC EXTRBLE. ZN MG/L	31104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	36(0)	35(0)	19(18)	35(30)	36(13)	33(5)	31(12)	31(27)	ECHANTILLONS(IND.)
LOW	.009	.40	L.001	L.001	L.001	L.001	L.0002	L.0001	MINIMUM
HIGH	2.15	10.7	.003	.004	.028	.048	.0026	.0007	MAXIMUM
AVERAGE	.113	1.32	.002*	.002*	.004*	.011*	.0006*	.0003*	MOYENNE
STD.DEV.	.356	1.86	.000*	.001*	.006*	.013*	.0006*	.0002*	ECART-TYPE
PERCNT:10TH	.017	.43	L.001	L.001	L.001	L.001	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.021	.47	L.002	L.001	L.001	.001	L.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.033	.80	L.002	L.002	.001	.004	.0005	L.0002	50 <sup>e</sup> MEDIANE
75TH	.059	1.25	L.002	L.002	.004	.016	.0009	.0002	75 <sup>e</sup>
90TH	.14	2.35	L.002	.002	.014	.035	.0011	L.0005	90 <sup>e</sup>
SECONDARY CODE					06L 05L	04L			CODE DE L'ÉCHANTILLON

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80001L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			11(10)		20(20)			34(28)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		L.001			.0007	MAXIMUM
AVERAGE			.00*					.0001*	MOYENNE
STD.DEV.			.00*					.0001*	ECART-TYPE
PERCNT:10TH			L.00		L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0001	75 <sup>e</sup>
90TH			L.01		L.001			.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE L'ÉCHANTILLON

	82301L LEAD EXTRBLE. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO. 100ML	36001L COLIFORMS TOTAL MPN NO. 100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO. ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	36(31)	35(0)	22(2)	23(0)	21(0)	35(2)	35(0)	34(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	110.	L0.	67.	49.	MINIMUM
HIGH	.007	4.	33.	540.	33000.	459.	420.	383.	MAXIMUM
AVERAGE	.002*	3.	7.*	41.	4586.	21.*	189.	144.	MOYENNE
STD.DEV.	.001*	1.	9.*	110.	7474.	77.*	108.	94.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	2.	350.	1.	94.	60.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	2.	7.	700.	2.	117.	83.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	2.	13.	1400.	5.	139.	97.	50 <sup>e</sup> MEDIANE
75TH	L.002	4.	7.	23.	6200.	9.	283.	207.	75 <sup>e</sup>
90TH	.005	4.	23.	70.	12000.	18.	363.	329.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE L'ÉCHANTILLON

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0014 LAT. 57 D 15 M 42 S LONG. 111 D 19 M 18 S

UTM 12 480600E 6346340 N

AUG 24, 1976 TO/A JUL 19, 1977

TRIBUTARY LEADING TO KEARL LAKE

TRIBUTARY FEEDING THE MUSKEG RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	9(0)	9(0)	10(0)	10(0)	4(0)	2(0)	10(0)		ECHANTILLONS(IND.)
LOW	97.	57.	38.1	60.	1.7	7.4	46.0		MINIMUM
HIGH	450.	266.	209.8	340.	40.2	7.9	252.0		MAXIMUM
AVERAGE	241.	133.	98.4	142.	13.9		127.1		MOYENNE
STD.DEV.	102.	57.	48.0	77.	18.1		54.3		ECART-TYPE
PERCNT:10TH			55.3	78.			69.2		10 <sup>e</sup> PERCNT
25TH	187.	110.	74.0	110.	2.0		96.0		25 <sup>e</sup>
MEDIAN 50TH	230.	119.	83.5	120.	7.0	7.7	116.0		50 <sup>e</sup> MEDIANE
75TH	270.	154.	114.0	150.	25.9		139.6		75 <sup>e</sup>
90TH			176.8	260.			208.3		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	9(0)	ECHANTILLONS(IND.)
LOW	.1	8.0	9.5	.7	0.	56.	.6	.5	MINIMUM
HIGH	1.8	30.0	54.0	18.2	0.	307.	3.1	10.4	MAXIMUM
AVERAGE	.7	18.2	26.00	8.1	0.	155.	1.7	5.1	MOYENNE
STD.DEV.	.5	5.8	12.30	4.8	0.	66.	1.0	3.6	ECART-TYPE
PERCNT:10TH	.1	11.3	13.75	2.1	0.	84.	.7		10 <sup>e</sup> PERCNT
25TH	.3	15.5	19.0	6.5	0.	117.	.7	1.1	25 <sup>e</sup>
MEDIAN 50TH	.7	17.0	23.25	7.3	0.	141.	1.5	6.5	50 <sup>e</sup> MEDIANE
75TH	1.1	22.0	28.5	10.7	0.	170.	2.8	7.6	75 <sup>e</sup>
90TH	1.5	26.3	45.50	15.3	0.	254.	3.0		90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	10(0)	10(7)		10(0)		10(3)	10(0)		ECHANTILLONS(IND.)
LOW	.45	L.003		.02		.006	.02		MINIMUM
HIGH	3.20	.02		.56		.03	.47		MAXIMUM
AVERAGE	1.355	.010*		.122		.013*	.171		MOYENNE
STD.DEV.	.843	.005*		.157		.007*	.187		ECART-TYPE
PERCNT:10TH	.470	L.003		.035		.008*	.023		10 <sup>e</sup> PERCNT
25TH	.88	L.01		.06		L.01	.029		25 <sup>e</sup>
MEDIAN 50TH	1.205	L.010		.075		.010	.050		50 <sup>e</sup> MEDIANE
75TH	1.30	.01		.09		.01	.40		75 <sup>e</sup>
90TH	2.800	.015		.350		.025	.445		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0014 LAT. 57 D 15M 42 S LONG. 111 D 19M 18 S

UTM 12 480600f 6346340 N  
AUG 24 1976 TO A OCT 04 1977

TRIBUTARY LEADING TO KEARL LAKE  
TRIBUTARY FEEDING THE MUSKEG RIVER

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	8(0)	4(0)	10(0)	8(0)	6(6)	ECHANTILLONS(IND.)
LOW	2.7	13.	8.	6.	4.7	37.	.07	L.0	MINIMUM
HIGH	21.2	53.	57.	32.5	9.6	151.	.7	L.0	MAXIMUM
AVERAGE	11.10	31.3	24.7	25.0	7.3	90.	.16		MOYENNE
STD.DEV.	6.32	9.9	14.8	10.1	2.3	41	22		ECART-TYPE
PERCNT:10TH	2.85	19.0	11.0			40.			10 <sup>e</sup> PERCNT
25TH	4.4	27.	16.5	18.8	5.5	67.	.07	L.0	25 <sup>e</sup>
MEDIAN 50TH	11.90	32.3	21.0	30.0	7.5	74.	.08	L.0	50 <sup>e</sup> MEDIANE
75TH	13.6	33.	26	32.0	9.1	134.	10	L.0	75 <sup>e</sup>
90TH	19.95	43.0	50.5			143.			90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	10(0)	8(0)		6(3)	7(7)	8(2)	8(3)	8(8)	ECHANTILLONS(IND.)
LOW	1.50	3.0		L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	2.40	13.5		.013	L.01	.049	3.9	L.02	MAXIMUM
AVERAGE	1.87	6.7		.0052*		.015*	1.1*		MOYENNE
STD.DEV.	.31	3.3		.0061*		.016*	1.7*		ECART-TYPE
PERCNT:10TH	1.50								10 <sup>e</sup> PERCNT
25TH	1.6	4.3		L.001	L.01	.002*	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.92	6.5		.0015*	L.01	.010	.3	L.02	50 <sup>e</sup> MEDIANE
75TH	2.0	7.8		.013	L.01	.022	2.2	L.02	75 <sup>e</sup>
90TH	2.35								90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE AL	92500L TITANIUM TOTAL T	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)		10(0)	8(2)		7(7)	3(2)	8(8)		ECHANTILLONS(IND.)
LOW		.02	L.01		L.001	L.001	L.003		MINIMUM
HIGH		.20	.14		L.001	.004	L.003		MAXIMUM
AVERAGE		.12	.05*			.0020*			MOYENNE
STD.DEV.		.06	.05*			.0017*			ECART-TYPE
PERCNT:10TH		.03							10 <sup>e</sup> PERCNT
25TH		.06	.01*		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.12	.04		L.001	L.001	L.003		50 <sup>e</sup> MEDIANE
75TH		.16	.08		L.001		L.003		75 <sup>e</sup>
90TH		.20							90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0014** LAT. **57 D 15M 42 S** LONG. **111 D 19M 18 S**

UTM **12 480600E 6346340 N**  
AUG 24, 1976 TO/A JUL 19, 1977

TRIBUTARY LEADING TO KEARL LAKE  
TRIBUTARY FEEDING THE MUSKEG RIVER

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	10(0)	10(0)	8(6)	10(9)	10(2)	8(1)	7(6)	7(5)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.008	.22	L.002	L.001	L.001	L.001	L.0002	L.0002	<b>MINIMUM</b>
<b>HIGH</b>	3.50	13.0	.011	.010	.015	.009	L.001	.0012	<b>MAXIMUM</b>
<b>AVERAGE</b>	.532	2.07	.003*	.003*	.004*	.005*	.0007*	.0005*	<b>MOYENNE</b>
<b>STD.DEV.</b>	1.140	4.05	.003*	.003*	.004*	.003*	.0004*	.0003*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.008	.26		L.001	L.001				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.015	.33	L.002	L.002	.001	.003	.0004	.0002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.023	.44	L.002	L.002	.003	.004	L.001	L.0005	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.115	.59	.003*	L.002	.004	.008	L.001	L.0005	<b>75<sup>e</sup></b>
<b>90TH</b>	2.500	8.75		.006*	.010				<b>90<sup>e</sup></b>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			8(8)		10(9)			10(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			L.00		L.001			L.0001	<b>MINIMUM</b>
<b>HIGH</b>			L.01		.002			.0012	<b>MAXIMUM</b>
<b>AVERAGE</b>					.001*			.0003*	<b>MOYENNE</b>
<b>STD.DEV.</b>					.000*			.0004*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					L.001			L.0001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			L.00		L.001			L.0001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			L.00		L.001			.0001*	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			L.00		L.001			L.0002	<b>75<sup>e</sup></b>
<b>90TH</b>					.001*			.0009	<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	10(10)	9(0)	6(0)	6(1)	4(1)	9(0)	10(0)	10(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.002	2.	0.	0.	1500.	1.	61.	39.	<b>MINIMUM</b>
<b>HIGH</b>	L.002	4.	8.	49.	7000.	21.	296.	223.	<b>MAXIMUM</b>
<b>AVERAGE</b>		2.	3.	18.*	3600.*	6.	143.	104.	<b>MOYENNE</b>
<b>STD.DEV.</b>		1.	3.	19.*	2368.*	7.	62.	52.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.002						85.	50.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.002	2.	0.	2.	2200.	1.	115.	74.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.002	2.	2.	13.	2950.	2.	131.	95.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.002	2.	5.	33.	5000.	8.	139.	124.	<b>75<sup>e</sup></b>
<b>90TH</b>	L.002						241.	184.	<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0015 LAT. 57 D 16 M 15 S LONG. 111 D 15 M 1 S

UTM 12 484910 E 6347350 N  
AUG 10 1976 TO A MAR 22 1978

KEARL LAKE OUTLET - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00212L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	10(0)	9(0)	10(0)	10(0)	8(0)	2(0)	10(0)		ECHANTILLONS(IND.)
LOW	120.	69.	52.2	20.	1.7	7.7	59.4		MINIMUM
HIGH	370.	184.	144.2	140.	52.5	7.8	179.0		MAXIMUM
AVERAGE	203.	117.	86.8	79.	9.1		104.8		MOYENNE
STD.DEV.	90.	48.	34.6	33.	17.6		44.5		ECART-TYPE
PERCNT:10TH	120.		53.0	35.			62.1		10 <sup>e</sup> PERCNT
25TH	134.	74.	57.2	60.	2.1		66.4		25 <sup>e</sup>
MEDIAN 50TH	169.	103.	76.7	80.	2.8	7.7	91.3		50 <sup>e</sup> MEDIANE
75TH	295.	167.	126.0	85.	4.3		152.0		75 <sup>e</sup>
90TH	338.		137.2	128.			172.3		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	10(0)	9(0)	ECHANTILLONS(IND.)
LOW	.4	7.7	12.5	4.8	0.	72.	.1	.5	MINIMUM
HIGH	4.6	20.0	36.0	13.2	0.	218.	3.5	8.7	MAXIMUM
AVERAGE	1.8	12.9	21.50	8.0	0.	128.	1.4	5.2	MOYENNE
STD.DEV.	1.2	5.1	9.06	2.9	0.	54.	1.0	2.8	ECART-TYPE
PERCNT:10TH	.6	7.8	12.75	5.2	0.	76.	.3		10 <sup>e</sup> PERCNT
25TH	1.1	8.1	13.5	5.7	0.	81.	.8	4.3	25 <sup>e</sup>
MEDIAN 50TH	1.7	11.3	19.50	6.9	0.	111.	1.2	5.8	50 <sup>e</sup> MEDIANE
75TH	2.0	19.5	32.5	10.9	0.	185.	1.5	7.5	75 <sup>e</sup>
90TH	3.6	19.8	34.25	12.5	0.	210.	3.1		90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L	
SAMPLES(FLAGS)	10(0)	10(4)	1(0)	10(0)		10(2)	10(0)		ECHANTILLONS(IND.)
LOW	.42	L.003	.007	.05		L.003	.016		MINIMUM
HIGH	3.50	.036	.007	.59		.07	.19		MAXIMUM
AVERAGE	1.721	.015*		.213		.021*	.075		MOYENNE
STD.DEV.	.865	.011*		.171		.020*	.054		ECART-TYPE
PERCNT:10TH	.585	.005*		.055		.004*	.027		10 <sup>e</sup> PERCNT
25TH	1.44	L.01		.08		.008	.040		25 <sup>e</sup>
MEDIAN 50TH	1.550	.010*		.150		.010	.055		50 <sup>e</sup> MEDIANE
75TH	2.22	.02		.30		.03	.12		75 <sup>e</sup>
90TH	2.955	.033		.485		.050	.160		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0015 LAT. 57 D 16 M 15 S LONG. 111 D 15 M 1 S

UTM 12 484910E 6347350 N  
AUG 10, 1976 TO/A MAR 22, 1978

KEARL LAKE OUTLET - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	9(0)	3(0)	10(0)	8(0)	4(4)	ECHANTILLONS(IND.)
LOW	.53	14.	11.	13.	1.8	39.	.05	L.0	MINIMUM
HIGH	9.4	37.	35.5	36.	6.7	214.	.15	L.0	MAXIMUM
AVERAGE	5.63	28.3	19.5	26.6	3.9	94.	.09		MOYENNE
STD.DEV.	2.70	7.6	8.9	8.3	2.5	51.	.04		ECART-TYPE
PERCNT:10TH	1.82	15.8	11.0			39.			10 <sup>e</sup> PERCNT
25TH	4.2	25.5	12.	23.0		57.	.06	L.0	25 <sup>e</sup>
MEDIAN 50TH	5.25	30.0	15.8	26.	3.1	83.	.07	L.0	50 <sup>e</sup> MEDIANE
75TH	8.0	34.5	27.0	34.0		112.	.12	L.0	75 <sup>e</sup>
90TH	8.90	36.0	33.3			168.			90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	10(0)	8(0)		5(1)	5(5)	7(2)	7(4)	8(7)	ECHANTILLONS(IND.)
LOW	.70	1.0		L.001	L.002	L.001	L.1	L.02	MINIMUM
HIGH	2.0	7.0		.021	L.01	.026	1.1	.26	MAXIMUM
AVERAGE	1.35	3.2		.0126*		.008*	.4*	.05*	MOYENNE
STD.DEV.	.44	2.3		.0088*		.009*	.4*	.08*	ECART-TYPE
PERCNT:10TH	.85								10 <sup>e</sup> PERCNT
25TH	1.00	2.0		.007	L.01	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.28	2.3		.013	L.01	.006	L.1	L.02	50 <sup>e</sup> MEDIANE
75TH	1.80	4.5		.021	L.01	.011	.7	L.02	75 <sup>e</sup>
90TH	1.92								90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		10(0)	8(3)		8(8)	2(1)	9(8)		ECHANTILLONS(IND.)
LOW		.04	L.01		L.001	L.001	L.003		MINIMUM
HIGH		.35	.20		L.001	.001	.006		MAXIMUM
AVERAGE		.14	.07*			.0010*	.003*		MOYENNE
STD.DEV.		.09	.07*			.0000*	.001*		ECART-TYPE
PERCNT:10TH		.04							10 <sup>e</sup> PERCNT
25TH		.08	L.01		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.15	.05		L.001	.0010*	L.003		50 <sup>e</sup> MEDIANE
75TH		.17	.11		L.001		L.003		75 <sup>e</sup>
90TH		.27							90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0015 LAT 57 D 16 M 15 S LONG 111 D 15 M 1 S

ITEM 12 4849101 6347350 N

AUG 10 1976 TO/A MAR 22 1978

## KEARL LAKE OUTLET - AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30705L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34107L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	8(8)	10(8)	10(0)	8(0)	8(5)	8(8)	ECHANTILLONS(IND.)
LOW	.004	.10	L.002	L.002	.001	.006	L.0002	L.0002	MINIMUM
HIGH	.265	1.66	L.002	.024	.102	.043	.0096	L.0005	MAXIMUM
AVERAGE	.081	.60		.005*	.018	.016	.0019*		MOYENNE
STD.DEV.	.084	.52		.008*	.032	.013	.0032*		ECART-TYPE
PERCNT:10TH	.011	.12		L.002	.001				10 <sup>e</sup> PERCNT
25TH	.018	.17	L.002	L.002	.002	.008	.0002*	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.054	.51	L.002	L.002	.004	.012	L.0007	L.0005	50 <sup>e</sup> MEDIANE
75TH	.100	.77	L.002	L.002	.010	.022	.0017*	L.0005	75 <sup>e</sup>
90TH	.224	1.48		.020	.071				90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			7(6)		10(9)			10(8)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			.01		.001			.0013	MAXIMUM
AVERAGE			.00*		.001*			.0003*	MOYENNE
STD.DEV.			.00*		.000*			.0004*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0002	75 <sup>e</sup>
90TH					.001*			.0009	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	BACT DENS NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	10(7)	10(0)	5(2)	5(2)	5(2)	10(0)	10(0)	10(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	50.	2.	75.	43.	MINIMUM
HIGH	.009	32.	33.	170.	4000.	82.	225.	173.	MAXIMUM
AVERAGE	.003*	7.	11.*	40.*	2090.*	15.	126.	97.	MOYENNE
STD.DEV.	.002*	10.	14.*	73.*	1755.*	24.	57.	45.	ECART-TYPE
PERCNT:10TH	L.002	2.				2.	75.	47.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	L2.	L2.	400.	3.	80.	58.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	2.	11.	G3000.	8.	102.	87.	50 <sup>e</sup> MEDIANE
75TH	.005	8.	G16.	G16.	G3000.	12.	182.	143.	75 <sup>e</sup>
90TH	.007	24.				51.	213.	161.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0016** LAT. **57 D 16 M 28 S** LONG. **111 D 13 M 30 S**

UTM **12 486440 E 6347740 N**  
AUG 10, 1976 TO/A JUL 19, 1977

KEARL LAKE INLET - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	7(0)	6(0)	7(0)	7(0)	5(0)	2(0)	7(0)		ECHANTILLONS(IND.)
LOW	118.	69.	49.3	105.	1.6	7.6	56.6		MINIMUM
HIGH	390.	222.	191.9	180.	34.0	8.3	206.4		MAXIMUM
AVERAGE	200.	119.	92.9	141.	10.0		107.5		MOYENNE
STD.DEV.	88.	53.	45.6	30.	14.0		46.8		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25:H	147.	99.	77.1	110.	1.6		86.6		25 <sup>e</sup>
MEDIAN 50TH	179.	106.	79.2	140.	2.0	7.9	98.8		50 <sup>e</sup> MEDIANE
75TH	196.	111.	92.4	170.	10.8		109.7		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	6(0)	ECHANTILLONS(IND.)
LOW	.2	8.8	12.0	4.7	0.	69.	.7	.5	MINIMUM
HIGH	2.1	18.0	48.0	17.5	0.	252.	7.0	11.6	MAXIMUM
AVERAGE	1.0	13.6	22.50	8.9	0.	131.	2.1	7.4	MOYENNE
STD.DEV.	.7	3.1	11.65	4.0	0.	57.	2.2	3.9	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.2	11.0	18.5	7.3	0.	106.	.7	6.5	25 <sup>e</sup>
MEDIAN 50TH	.7	14.0	19.0	7.5	0.	120.	1.4	7.9	50 <sup>e</sup> MEDIANE
75TH	1.8	15.5	22.0	9.1	0.	134.	2.4	10.3	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	6(0)	6(5)		7(0)		7(0)	7(0)		ECHANTILLONS(IND.)
LOW	.32	L.003		.04		.008	.03		MINIMUM
HIGH	3.94	.02		1.28		.04	.31		MAXIMUM
AVERAGE	1.812	.009*		.291		.017	.091		MOYENNE
STD.DEV.	1.504	.006*		.442		.011	.100		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.35	L.003		.06		.01	.033		25 <sup>e</sup>
MEDIAN 50TH	1.530	L.010		.13		.013	.05		50 <sup>e</sup> MEDIANE
75TH	3.20	L.01		.27		.02	.09		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0016 LAT. 57 D 16 M 28 S LONG. 111 D 13 M 30 S

UTM 12 486440 E 6347740 N  
AUG 10 1976 TO A JUL 19 1977

KEARL LAKE INLET - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	06101L CARBON DISSOLVED ORGANIC C	08102F OXYGEN DISSOLVED O2	08101L OXYGEN TOTAL COD O2	09105L FLUORIDE DISSOLVED F	16101L SULPHIDE DISSOLVED S	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	6(0)	3(0)	7(0)	5(0)	3(3)	ECHANTILLONS(IND.)
LOW	3.0	13.	12.	8.5	5.1	50.	.06	L.0	MINIMUM
HIGH	18.9	43.	50.	31.0	7.9	148.	.07	L.0	MAXIMUM
AVERAGE	8.93	28.9	21.8	21.5	6.2	102.	.06		MOYENNE
STD.DEV.	5.56	9.3	13.1	9.2	1.5	39.	.00		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	4.1	22.5	13.5	13.		68.	.06		25 <sup>e</sup>
MEDIAN 50TH	10.3	31.5	16.5	24.0	5.5	94.	.06	L.0	50 <sup>e</sup> MEDIANE
75TH	11.0	32.0	24.0	28.5		141.	.06		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE CN	06532L PHENOLIC MATERIAL MG/L	06521L OIL AND GREASE MG/L	10701L SURFACT N-ALKYL SULPHNTS LAS MG/L	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	7(0)	6(0)		2(2)	3(3)	5(1)	5(4)	6(5)	ECHANTILLONS(IND.)
LOW	2.20	2.0		L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	3.05	9.5		L.001	L.01	.015	4.4	.03	MAXIMUM
AVERAGE	2.57	5.8				.006*	1.0*	.02*	MOYENNE
STD.DEV.	.34	2.5				.006*	1.9*	.00*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	2.20	4.0				.003	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	2.50	6.3		L.0010	L.01	.004	L.1	L.02	50 <sup>e</sup> MEDIANE
75TH	2.95	6.5				.009	L.1	L.02	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT CR	24310L CHROMIUM EXTRBLE CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)		7(0)	5(0)		5(4)	2(2)	5(5)		ECHANTILLONS(IND.)
LOW		.08	.02		L.001	L.001	L.003		MINIMUM
HIGH		.26	.17		.001	L.001	L.003		MAXIMUM
AVERAGE		.18	.11		.001*				MOYENNE
STD.DEV.		.06	.06		.000*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.15	.07		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.20	.11		L.001	L.0010	L.003		50 <sup>e</sup> MEDIANE
75TH		.22	.16		L.001		L.003		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0016** LAT. **57 D 16M 28 S** LONG. **111 D 13M 30 S**UTM **12 486440E 6347740 N**  
AUG 10, 1976 TO/À JUL 19, 1977

KEARL LAKE INLET - AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>5(5)</b>	<b>7(7)</b>	<b>7(0)</b>	<b>5(0)</b>	<b>5(4)</b>	<b>5(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.016</b>	<b>.26</b>	<b>L.002</b>	<b>L.002</b>	<b>.001</b>	<b>.005</b>	<b>L.0002</b>	<b>L.0002</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.55</b>	<b>7.60</b>	<b>L.002</b>	<b>L.002</b>	<b>.020</b>	<b>.011</b>	<b>L.001</b>	<b>.0016</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.249</b>	<b>1.48</b>			<b>.005</b>	<b>.007</b>	<b>.0006*</b>	<b>.0007*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.574</b>	<b>2.71</b>			<b>.007</b>	<b>.002</b>	<b>.0004*</b>	<b>.0006*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.017</b>	<b>.31</b>	<b>L.002</b>	<b>L.002</b>	<b>.001</b>	<b>.006</b>	<b>.0004</b>	<b>.0002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.021</b>	<b>.43</b>	<b>L.002</b>	<b>L.002</b>	<b>.002</b>	<b>.007</b>	<b>L.0005</b>	<b>L.0005</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.095</b>	<b>.95</b>	<b>L.002</b>	<b>L.002</b>	<b>.005</b>	<b>.008</b>	<b>L.001</b>	<b>.0009</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			<b>4(4)</b>		<b>7(7)</b>			<b>7(7)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0001</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>L.01</b>		<b>L.001</b>			<b>L.0002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>7(6)</b>	<b>7(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(1)</b>	<b>6(1)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.002</b>	<b>2.</b>	<b>0.</b>	<b>0.</b>	<b>G3000.</b>	<b>L0.</b>	<b>73.</b>	<b>48.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.003</b>	<b>8.</b>	<b>33.</b>	<b>110.</b>	<b>54000.</b>	<b>48.</b>	<b>259.</b>	<b>206.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.002*</b>	<b>3.</b>	<b>17.</b>	<b>48.</b>	<b>20300.*</b>	<b>15.*</b>	<b>130.</b>	<b>99.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.000*</b>	<b>2.</b>	<b>17.</b>	<b>56.</b>	<b>29189.*</b>	<b>19.*</b>	<b>60.</b>	<b>52.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.002</b>	<b>2.</b>				<b>1.</b>	<b>101.</b>	<b>65.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.002</b>	<b>2.</b>	<b>17.</b>	<b>33.</b>	<b>3900.</b>	<b>6.</b>	<b>111.</b>	<b>91.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.002</b>	<b>2.</b>				<b>30.</b>	<b>131.</b>	<b>114.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0017 LAT. 57 D 20 M 41 S LONG. 111 D 7 M 50 S

UTM 12 492150E 6355550 N  
SEP 10 1976 TO: A JUL 19 1977

MUSKEG RIVER 14 MILES UPSTREAM FROM  
STANLEY CREEK - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL CACO3	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	MG/L	PH UNITS	
SAMPLES(FLAGS)	6(0)	6(0)	6(0)	6(0)	4(0)	2(0)	6(0)		ECHANTILLONS(IND.)
LOW	142.	81.	78.3	40.	.2	7.5	74.2		MINIMUM
HIGH	1200.	671.	656.0	100.	5.9	7.7	720.0		MAXIMUM
AVERAGE	417.	231.	229.8	63.	2.3		238.3		MOYENNE
STD.DEV.	392.	218.	212.3	23.	2.5		239.1		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	231.	144.	143.4	45.	.8		145.0		25 <sup>e</sup>
MEDIAN 50TH	270.	150.	150.7	55.	1.5	7.6	148.2		50 <sup>e</sup> MEDIANE
75TH	390.	191.	199.9	80.	3.8		194.4		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
SAMPLES(FLAGS)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	ECHANTILLONS(IND.)
LOW	.1	2.0	19.5	7.2	0.	90.	.3	.5	MINIMUM
HIGH	3.5	8.5	144.0	72.0	0.	878.	2.0	8.5	MAXIMUM
AVERAGE	1.2	3.8	55.00	22.5	0.	291.	1.0	4.5	MOYENNE
STD.DEV.	1.3	2.3	44.95	24.4	0.	291.	.6	3.4	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.4	2.7	36.0	13.0	0.	177.	.5	.5	25 <sup>e</sup>
MEDIAN 50TH	.6	3.2	38.25	13.4	0.	181.	.8	5.3	50 <sup>e</sup> MEDIANE
75TH	1.7	3.5	54.0	15.8	0.	237.	1.4	7.2	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)	6(0)	6(5)		6(0)		6(0)	6(0)		ECHANTILLONS(IND.)
LOW	.39	L.003		.01		.01	.031		MINIMUM
HIGH	4.90	.01		1.69		.06	.32		MAXIMUM
AVERAGE	2.053	.009*		.360		.020	.125		MOYENNE
STD.DEV.	1.655	.003*		.659		.020	.109		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.84	L.01		.05		.01	.04		25 <sup>e</sup>
MEDIAN 50TH	1.785	L.010		.060		.011	.100		50 <sup>e</sup> MEDIANE
75TH	2.62	L.01		.29		.02	.16		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0017** LAT. **57 D 20 M 41 S** LONG. **111 D 7 M 50 S**UTM **12 492150E 6355550 N**  
SEP 10, 1976 TO/A JUL 19, 1977MUSKEG RIVER 14 MILES UPSTREAM FROM  
STANLEY CREEK - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SI02 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	6(0)	6(0)	6(0)	5(0)	4(0)	6(0)	4(0)	2(2)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>4.0</b>	<b>12.</b>	<b>14.</b>	<b>12.</b>	<b>4.3</b>	<b>42.</b>	<b>.06</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>72.</b>	<b>29.</b>	<b>197.0</b>	<b>28.5</b>	<b>9.3</b>	<b>225.</b>	<b>.13</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>18.70</b>	<b>20.6</b>	<b>55.4</b>	<b>20.7</b>	<b>7.1</b>	<b>92.</b>	<b>.09</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>26.51</b>	<b>7.2</b>	<b>69.7</b>	<b>6.4</b>	<b>2.5</b>	<b>72.</b>	<b>.03</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>4.1</b>	<b>13.5</b>	<b>27.</b>	<b>17.0</b>	<b>5.0</b>	<b>44.</b>	<b>.08</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>8.40</b>	<b>20.5</b>	<b>30.5</b>	<b>22.0</b>	<b>7.4</b>	<b>59.</b>	<b>.09</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>15.3</b>	<b>28.</b>	<b>33.5</b>	<b>24.</b>	<b>9.2</b>	<b>122.</b>	<b>.11</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	6(0)	4(1)		2(1)	2(2)	4(2)	4(2)	4(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.95</b>	<b>L.1.0</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.85</b>	<b>3.5</b>		<b>.004</b>	<b>L.01</b>	<b>.006</b>	<b>.6</b>	<b>L.02</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.46</b>	<b>2.0*</b>		<b>.0025*</b>		<b>.002*</b>	<b>.3*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.34</b>	<b>1.2*</b>		<b>.0021*</b>		<b>.003*</b>	<b>.2*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.15</b>	<b>1.0*</b>				<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.55</b>	<b>1.8</b>		<b>.0025*</b>	<b>L.010</b>	<b>.001*</b>	<b>.2*</b>	<b>L.02</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.7</b>	<b>3.0</b>				<b>.004</b>	<b>.5</b>	<b>L.02</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		6(0)	4(0)		4(4)	2(2)	4(3)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.04</b>	<b>.04</b>		<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.24</b>	<b>.08</b>		<b>L.001</b>	<b>L.001</b>	<b>.012</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.13</b>	<b>.06</b>				<b>.005*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.07</b>	<b>.02</b>				<b>.005*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.07</b>	<b>.04</b>		<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.13</b>	<b>.05</b>		<b>L.001</b>	<b>L.0010</b>	<b>L.002</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.18</b>	<b>.07</b>		<b>L.001</b>		<b>.007*</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE				02L	02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0017 LAT. 57 D 20 M 41 S LONG. 111 D 7 M 50 S

UTM 12 492150E 6355550N  
SEP 10 1976 TO: A JUL 19 1977

MUSKEG RIVER 14 MILES UPSTREAM FROM  
STANLEY CREEK AOSERP

	26104L MANGANESE EXTRBL.	26104L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	31104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG L	FE MG L	CO MG L	NI MG L	CU MG L	ZN MG L	AS MG L	SE MG L	
SAMPLES(FLAGS)	6(0)	6(0)	4(2)	6(5)	6(0)	4(0)	4(2)	4(3)	ECHANTILLONS(IND.)
LOW	.025	.33	L.002	L.002	.002	.005	L.0002	L.0002	MINIMUM
HIGH	6.10	2.00	.009	.012	.013	.027	.0023	L.0005	MAXIMUM
AVERAGE	1.099	.77	.004*	.004*	.005	.014	.0009*	.0003*	MOYENNE
STD.DEV.	2.452	.65	.003*	.004*	.004	.009	.0010*	.0002*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.029	.33	L.002	L.002	.002	.008	L.0003	.0002*	25 <sup>e</sup>
MEDIAN 50TH	.067	.51	.003*	L.002	.003	.011	.0005*	.0003*	50 <sup>e</sup> MEDIANE
75TH	.307	.95	.007	L.002	.006	.020	.0014	L.0005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80311L MERCURY TOTAL	
SUBM ID	SR MG L	MO MG L	AG MG L	CD MG L	CD MG L	SB MG L	BA MG L	HG MG L	
SAMPLES(FLAGS)			4(2)		6(5)			6(3)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			.01		.002			.0036	MAXIMUM
AVERAGE			.01*		.001*			.0007*	MOYENNE
STD.DEV.			.00*		.000*			.0014*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			.00*		L.001			.0001*	50 <sup>e</sup> MEDIANE
75TH			.01		L.001			.0005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG. C. BACT. DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTRABLE	10551L RESIDUE FIXED FILTRABLE	
SUBM ID	PB MG L	TON	MPN NO 100ML	MPN NO 100ML	NO ML	MG L	MG L	MG L	
SAMPLES(FLAGS)	6(2)	6(0)	1(0)	1(0)	1(0)	5(0)	6(0)	6(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	33.	130.	90.	1.	93.	81.	MINIMUM
HIGH	.009	8.	33.	130.	90.	37.	780.	691.	MAXIMUM
AVERAGE	.005*	4.				10.	259.	206.	MOYENNE
STD.DEV.	.003*	2.				15.	258.	238.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.				1.	152.	95.	25 <sup>e</sup>
MEDIAN 50TH	.004	3.				4.	156.	120.	50 <sup>e</sup> MEDIANE
75TH	.008	4.				8.	216.	128.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0018** LAT. **57 D 6 M 6 S** LONG. **111 D 23 M 7 S**

UTM **12 476660 E 6328550 N**  
JUL 30, 1976 TO/A JUL 20, 1977

HARTLEY CREEK -SW FORK- 10 MILES FROM  
JUNCTION WITH SE FORK - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>8(0)</b>	<b>2(0)</b>	<b>10(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	131.	82.	60.5	50.	.4	7.3	70.0		MINIMUM
HIGH	590.	317.	252.6	150.	65.	7.8	307.0		MAXIMUM
AVERAGE	306.	172.	135.4	84.	25.8		163.4		MOYENNE
STD.DEV.	151.	80.	66.3	28.	25.1		79.0		ECART-TYPE
PERCNT:10TH	152.	96.	72.8	55.			87.4		10 <sup>e</sup> PERCNT
25TH	195.	116.	86.7	65.	4.0		107.7		25 <sup>e</sup>
MEDIAN 50TH	280.	150.	114.0	80.	21.3	7.5	147.3		50 <sup>e</sup> MEDIANE
75TH	370.	197.	165.0	100.	45.3		180.4		75 <sup>e</sup>
90TH	555.	305.	246.8	125.			295.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	.0	9.1	16.0	5.0	0.	85.	.9	.6	MINIMUM
HIGH	2.0	29.0	69.0	19.5	0.	374.	5.1	10.8	MAXIMUM
AVERAGE	.9	17.9	36.55	10.7	0.	199.	2.4	5.3	MOYENNE
STD.DEV.	.6	6.8	18.33	5.0	0.	96.	1.4	3.5	ECART-TYPE
PERCNT:10TH	.1	9.5	19.50	5.8	0.	107.	1.0	.9	10 <sup>e</sup> PERCNT
25TH	.6	13.0	23.5	6.8	0.	131.	1.2	1.2	25 <sup>e</sup>
MEDIAN 50TH	.8	17.5	30.50	9.5	0.	180.	2.2	5.9	50 <sup>e</sup> MEDIANE
75TH	1.3	22.5	43.5	13.7	0.	220.	3.0	6.8	75 <sup>e</sup>
90TH	1.8	27.5	67.75	18.8	0.	360.	4.7	10.2	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>10(6)</b>		<b>10(0)</b>		<b>10(5)</b>	<b>10(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	.10	.006		.03		L.003	.014		MINIMUM
HIGH	4.17	.01		1.24		.04	.50		MAXIMUM
AVERAGE	1.423	.010*		.335		.017*	.111		MOYENNE
STD.DEV.	1.203	.001*		.493		.013*	.151		ECART-TYPE
PERCNT:10TH	260	.008*		.040		L.006	.021		10 <sup>e</sup> PERCNT
25TH	87	L.01		.05		L.01	.03		25 <sup>e</sup>
MEDIAN 50TH	1.000	L.010		.070		.010*	.050		50 <sup>e</sup> MEDIANE
75TH	2.10	.01		.45		.02	.08		75 <sup>e</sup>
90TH	3.355	.010		1.240		.040	.370		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

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## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0018 LAT. 57 D 6 M 6 S LONG. 111 D 23 M 7 S

UTM 12 476660E 6328550 N  
JUL 30 1976 TO/A JUL 20 1977HARTLEY CREEK SW FORK 10 MILES FROM  
JUNCTION WITH SE FORK AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	7(0)	4(0)	10(0)	8(0)	3(3)	ECHANTILLONS(IND.)
LOW	3.4	7.	9.	7.	6.1	35.	.07	L.0	MINIMUM
HIGH	20.0	40.5	65.	36.5	10.9	140.	.19	L.0	MAXIMUM
AVERAGE	8.34	24.8	32.8	22.1	8.0	73.	.12		MOYENNE
STD.DEV.	4.83	8.4	18.9	9.3	2.2	35.	.04		ECART-TYPE
PERCNT:10TH	3.65	14.0	12.5			38.			10 <sup>e</sup> PERCNT
25TH	4.3	22.	18.0	14.	6.3	44.	.08		25 <sup>e</sup>
MEDIAN 50TH	7.85	25.3	28.5	24.	7.5	65.	.11	L.0	50 <sup>e</sup> MEDIANE
75TH	9.6	28.	46.	25.0	9.7	85.	.15		75 <sup>e</sup>
90TH	15.65	35.3	61.8			133.			90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	10(0)	8(0)		3(3)	5(5)	8(4)	8(3)	8(8)	ECHANTILLONS(IND.)
LOW	1.00	1.0		L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	1.85	11.0		L.001	L.01	.013	2.1	L.02	MAXIMUM
AVERAGE	1.44	4.9				.003*	.5*		MOYENNE
STD.DEV.	.27	3.7				.004*	.7*		ECART-TYPE
PERCNT:10TH	1.10								10 <sup>e</sup> PERCNT
25TH	1.25	2.0			L.01	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.47	3.8		L.001	L.01	.001*	.2	L.02	50 <sup>e</sup> MEDIANE
75TH	1.55	8.0			L.01	.005	.4	L.02	75 <sup>e</sup>
90TH	1.82								90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)		10(0)	8(0)		7(4)	3(3)	8(6)		ECHANTILLONS(IND.)
LOW		.01	.01		L.001	L.001	L.002		MINIMUM
HIGH		.32	.90		.006	L.001	.007		MAXIMUM
AVERAGE		.13	.20		.002*		.003*		MOYENNE
STD.DEV.		.09	.30		.002*		.002*		ECART-TYPE
PERCNT:10TH		.03							10 <sup>e</sup> PERCNT
25TH		.08	.06		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.13	.09		L.001	L.001	L.003		50 <sup>e</sup> MEDIANE
75TH		.16	.19		.004		.003*		75 <sup>e</sup>
90TH		.26							90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0018** LAT. **57 D 6M 6 S** LONG. **111 D 23M 7 S**UTM **12 476660 E 6328550 N**  
JUL 30, 1976 TO/A JUL 20, 1977HARTLEY CREEK -SW FORK- 10 MILES FROM  
JUNCTION WITH SE FORK - AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	10(0)	10(0)	8(6)	10(5)	10(2)	8(0)	8(2)	7(5)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.010	.15	L.002	L.002	L.001	.006	.0006	L.0002	<b>MINIMUM</b>
<b>HIGH</b>	7.95	43.5	.008	.022	.068	.042	.0073	.0006	<b>MAXIMUM</b>
<b>AVERAGE</b>	.986	7.96	.003*	.005*	.013*	.018	.0028*	.0004*	<b>MOYENNE</b>
<b>STD.DEV.</b>	2.488	15.11	.002*	.006*	.022*	.014	.0024*	.0002*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.011	.19		L.002	L.001				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.019	.38	L.002	L.002	.002	.008	.0008*	.0002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.050	1.20	L.002	.002*	.002	.014	.0018	L.0005	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.150	2.70	.003*	.005	.023	.027	.0044*	L.0005	<b>75<sup>e</sup></b>
<b>90TH</b>	4.715	35.75		.014	.048				<b>90<sup>e</sup></b>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			8(8)		10(10)			10(10)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			L.00		L.001			L.0001	<b>MINIMUM</b>
<b>HIGH</b>			L.01		L.002			L.0002	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					L.001			L.0001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			L.00		L.001			L.0001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			L.00		L.001			L.0001	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			L.00		L.001			L.0002	<b>75<sup>e</sup></b>
<b>90TH</b>					L.001			L.0002	<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	10(7)	10(0)	5(0)	5(0)	3(0)	9(1)	10(0)	10(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.002	2.	0.	0.	150.	L0.	88.	74.	<b>MINIMUM</b>
<b>HIGH</b>	.032	8.	58.	240.	25000.	74.	361.	322.	<b>MAXIMUM</b>
<b>AVERAGE</b>	.006*	3.	14.	116.	10050.	23.*	189.	155.	<b>MOYENNE</b>
<b>STD.DEV.</b>	.009*	2.	25.	117.	13172.	27.*	90.	75.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.002	2.					104.	80.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.002	2.	2.	17.		7.	122.	87.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.002	2.	4.	84.	5000.	12.	164.	139.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.003	4.	8.	240.		19.	226.	201.	<b>75<sup>e</sup></b>
<b>90TH</b>	.020	6.					343.	263.	<b>90<sup>e</sup></b>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0019 LAT. 57 D 4 M 22 S LONG. 111 D 11 M 18 S

UTM 12 488590 E 6325290 N  
AUG 09 1976 TO A JUL 20 1977HARTLEY CREEK SE FORK 13 MILES  
FROM JUNCTION WITH SW FORK - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH-UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH-UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	8(0)	7(0)	7(0)	8(0)	5(0)	2(0)	8(0)		ECHANTILLONS(IND.)
LOW	82.	48.	37.3	50.	.9	7.8	41.8		MINIMUM
HIGH	460.	250.	233.1	80.	46.3	7.9	237.8		MAXIMUM
AVERAGE	204.	118.	107.8	63.	10.6		107.2		MOYENNE
STD.DEV.	136.	76.	72.1	10.	20.0		69.4		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	121.	74.	65.5	55.	.9		67.1		25 <sup>e</sup>
MEDIAN 50TH	143.	78.	69.7	60.	1.4	7.8	75.1		50 <sup>e</sup> MEDIANE
75TH	283.	198.	182.5	70.	3.5		146.6		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	8(0)	8(0)	8(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	.0	4.0	10.0	3.0	0.	51.	.3	.5	MINIMUM
HIGH	1.2	12.0	64.5	17.5	0.	290.	2.2	11.1	MAXIMUM
AVERAGE	.6	6.9	29.64	7.8	0.	131.	1.0	4.6	MOYENNE
STD.DEV.	.5	3.0	20.07	5.1	0.	85.	.6	3.9	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.2	4.3	18.0	5.0	0.	82.	.6	.9	25 <sup>e</sup>
MEDIAN 50TH	.4	5.9	19.0	5.3	0.	92.	1.0	4.3	50 <sup>e</sup> MEDIANE
75TH	1.1	10.0	50.5	10.6	0.	179.	1.2	7.5	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	8(1)	8(4)		8(0)		8(7)	8(0)		ECHANTILLONS(IND.)
LOW	L.1	.003		.04		L.003	.014		MINIMUM
HIGH	3.01	.12		1.27		.01	.29		MAXIMUM
AVERAGE	1.222*	.027*		.263		.009*	.087		MOYENNE
STD.DEV.	.855*	.039*		.431		.002*	.095		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.775	L.010		.050		L.010	.040		25 <sup>e</sup>
MEDIAN 50TH	1.060	L.010		.055		L.010	.045		50 <sup>e</sup> MEDIANE
75TH	1.500	.025		.290		L.010	.111		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0019 LAT. 57 D 4 M 22 S LONG. 111 D 11 M 18 S

UTM 12 488590 E 6325290 N  
AUG 09, 1976 TO/A JUL 20, 1977HARTLEY CREEK - SE FORK - 13 MILES  
FROM JUNCTION WITH SW FORK - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	8(0)	8(0)	8(0)	6(0)	4(0)	8(0)	6(1)	2(2)	ECHANTILLONS(IND.)
LOW	1.9	9.	8.	9.	7.8	34.	L.05	L.0	MINIMUM
HIGH	14.2	104.5	52.	30.	12.6	225.	.10	L.0	MAXIMUM
AVERAGE	6.92	31.4	22.7	19.3	10.2	86.	.07*		MOYENNE
STD.DEV.	4.34	30.2	17.0	7.1	2.6	62.	.02*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	3.30	19.0	11.3	16.	7.9	47.	.06		25 <sup>e</sup>
MEDIAN 50TH	6.45	20.8	13.5	18.8	10.2	67.	.06	L.0	50 <sup>e</sup> MEDIANE
75TH	9.90	29.0	36.0	23.0	12.4	101.	.07		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	8(0)	6(1)		2(2)	3(3)	6(4)	5(1)	6(6)	ECHANTILLONS(IND.)
LOW	.85	L1.0		L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	1.60	8.0		L.001	L.01	.126	1.6	L.02	MAXIMUM
AVERAGE	1.13	3.7*				.026*	.6*		MOYENNE
STD.DEV.	.24	3.0*				.050*	.6*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.98	1.0				L.001	.2	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.10	2.8		L.0010	L.01	L.001	.5	L.02	50 <sup>e</sup> MEDIANE
75TH	1.22	6.5				.026	.6	L.02	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		8(0)	6(0)		6(5)	2(1)	6(4)		ECHANTILLONS(IND.)
LOW		.01	.07		L.001	L.001	L.003		MINIMUM
HIGH		.24	.32		.005	.002	.190		MAXIMUM
AVERAGE		.10	.17		.002*	.0015*	.035*		MOYENNE
STD.DEV.		.08	.11		.002*	.0007*	.076*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.04	.08		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.09	.13		L.001	.0015*	L.003		50 <sup>e</sup> MEDIANE
75TH		.16	.29		L.001		.007		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0019 LAT 57° 4' 22" S LONG 111° 11' 18" W

JTM 12 488590 6325290  
AUG 09 1976 TO/A JUL 20 1977HARTLEY CREEK SE FORK - 13 MILES  
FROM JUNCTION WITH SW FORK - AOSERP

	29304L MANGANESE EXTRBL. MN MG/L	26304L IRON EXTRBL. FE MG/L	27302L COBALT EXTRBL. CO MG/L	28302L NICKEL EXTRBL. NI MG/L	29301L COPPER EXTRBL. CU MG/L	30305L ZINC EXTRBL. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	8(0)	8(0)	6(6)	8(7)	8(1)	6(0)	6(2)	6(6)	ECHANTILLONS(IND.)
LOW	.023	.30	L.002	L.002	L.001	.001	.0004	L.0002	MINIMUM
HIGH	7.00	15.0	L.002	.003	.250	.016	.0015	L.0005	MAXIMUM
AVERAGE	1.548	3.13		.002*	.036*	.008	.0009*		MOYENNE
STD.DEV.	2.838	5.43		.000*	.087*	.005	.0004*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.031	.35	L.002	L.002	.002	.004	L.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.039	.45	L.002	L.002	.003	.008	.0009*	L.0005	50 <sup>e</sup> MEDIANE
75TH	2.610	4.08	L.002	L.002	.014	.010	.0010	L.0005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					06L 05L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL. SR MG/L	42301L MOLYBDENUM EXTRBL. MO MG/L	47301L SILVER EXTRBL. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBL. CD MG/L	51301L ANTIMONY EXTRBL. SB MG/L	56301L BARIUM EXTRBL. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			6(6)		8(7)			8(8)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.001			L.0002	MAXIMUM
AVERAGE					.001*				MOYENNE
STD.DEV.					.000*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL. PB MG/L	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTRABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	8(5)	7(0)	3(0)	3(0)	2(0)	8(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	7.	3800.	2.	53.	40.	MINIMUM
HIGH	.006	4.	33.	130.	6200.	98.	285.	221.	MAXIMUM
AVERAGE	.003*	2.	14.	50.	5000.	20.	129.	101.	MOYENNE
STD.DEV.	.002*	1.	17.	69.	1697.	33.	84.	65.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.				3.	78.	53.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	8.	13.	5000.	5.	92.	83.	50 <sup>e</sup> MEDIANE
75TH	.006	2.				22.	177.	139.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0020** LAT. **57 D 18 M 23 S** LONG. **111 D 40 M 20 S**UTM **12 459510E 6351480 N**  
FEB 11, 1976 TO/A APR 17, 1979

ELLS RIVER NEAR THE MOUTH NO.1 AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>12(0)</b>	<b>13(1)</b>	<b>2(0)</b>	<b>13(0)</b>	<b>9(0)</b>	<b>13(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>115.</b>	<b>77.</b>	<b>65.1</b>	<b>20.</b>	<b>.9</b>	<b>6.6</b>	<b>62.9</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>250.</b>	<b>160.</b>	<b>136.5</b>	<b>70.</b>	<b>23.</b>	<b>8.6</b>	<b>105.1</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>178.</b>	<b>110.</b>	<b>88.5*</b>	<b>45.</b>	<b>10.5</b>		<b>79.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>37.</b>	<b>24.</b>	<b>18.9*</b>	<b>35.</b>	<b>8.0</b>		<b>12.7</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>125.</b>	<b>77.</b>	<b>66.8</b>		<b>3.7</b>		<b>63.2</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>162.</b>	<b>95.</b>	<b>Q78.5</b>		<b>5.0</b>	<b>7.5</b>	<b>65.5</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>190.</b>	<b>109.</b>	<b>88.6</b>	<b>45.</b>	<b>7.3</b>	<b>7.6</b>	<b>83.2</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>200.</b>	<b>119.</b>	<b>92.9</b>		<b>17.0</b>	<b>8.1</b>	<b>85.0</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>202.</b>	<b>137.</b>	<b>110.3</b>		<b>23.0</b>		<b>91.4</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(11)</b>	<b>13(11)</b>	<b>12(0)</b>	<b>13(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.6</b>	<b>5.5</b>	<b>17.50</b>	<b>5.2</b>	<b>0.</b>	<b>Q76.</b>	<b>1.0</b>	<b>7.4</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.3</b>	<b>13.0</b>	<b>28.00</b>	<b>17.7</b>	<b>Q0.</b>	<b>Q128.</b>	<b>25.5</b>	<b>23.8</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.9</b>	<b>9.2</b>	<b>22.56</b>	<b>7.8</b>	<b>0.*</b>	<b>97.*</b>	<b>3.8</b>	<b>16.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.2</b>	<b>2.6</b>	<b>3.15</b>	<b>3.2</b>	<b>0.*</b>	<b>16.*</b>	<b>6.9</b>	<b>4.8</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.7</b>	<b>5.8</b>	<b>18.00</b>	<b>5.3</b>	<b>0.</b>	<b>Q77.</b>	<b>1.0</b>	<b>8.6</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.8</b>	<b>6.5</b>	<b>21.0</b>	<b>6.3</b>	<b>Q0.</b>	<b>80.</b>	<b>1.2</b>	<b>14.2</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.0</b>	<b>9.5</b>	<b>23.00</b>	<b>6.9</b>	<b>Q0.</b>	<b>Q101.</b>	<b>1.7</b>	<b>17.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.0</b>	<b>11.0</b>	<b>24.80</b>	<b>7.6</b>	<b>Q0.</b>	<b>104.</b>	<b>2.1</b>	<b>20.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.3</b>	<b>12.3</b>	<b>25.50</b>	<b>9.8</b>	<b>Q0.</b>	<b>Q111.</b>	<b>4.2</b>	<b>21.0</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L	03L	03L				03L 06L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>11(3)</b>	<b>6(0)</b>	<b>9(0)</b>	<b>2(0)</b>	<b>11(0)</b>	<b>11(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.64</b>	<b>L.003</b>	<b>.003</b>	<b>.004</b>	<b>.40</b>	<b>.005</b>	<b>.016</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>1.78</b>	<b>.280</b>	<b>.010</b>	<b>.052</b>	<b>.56</b>	<b>.034</b>	<b>.170</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.993</b>	<b>.084*</b>	<b>.007</b>	<b>.029</b>	<b>.48</b>	<b>.013</b>	<b>.051</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.375</b>	<b>.101*</b>	<b>.003</b>	<b>.017</b>	<b>.11</b>	<b>.008</b>	<b>.042</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.665</b>	<b>L.003</b>				<b>.007</b>	<b>.025</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.72</b>	<b>L.003</b>	<b>.003</b>	<b>.015</b>		<b>.008</b>	<b>.030</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.870</b>	<b>.040</b>	<b>.007</b>	<b>.030</b>	<b>.48</b>	<b>.010</b>	<b>.037</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.12</b>	<b>.180</b>	<b>.010</b>	<b>.043</b>		<b>.014</b>	<b>.064</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.630</b>	<b>.230</b>				<b>.020</b>	<b>.066</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include deviated values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0020 LAT. 57 D 18 M 23 S LONG. 111 D 40 M 20 S

UTM 12 459510E 6351480N  
FEB 11 1976 TO/A APR 17 1979

ELLS RIVER NEAR THE MOUTH NO.1 AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	13(1)	13(0)	13(0)	13(0)	6(0)	11(0)	13(1)	11(11)	ECHANTILLONS(IND.)
LOW	L.02	12.0	12.5	11.5	7.2	23.	L.05	L.0	MINIMUM
HIGH	9.00	40.5	21.5	39.0	13.4	195.	1.00	L.0	MAXIMUM
AVERAGE	3.16*	18.7	17.7	17.7	9.6	74.	.15*		MOYENNE
STD.DEV.	2.13*	7.4	3.2	7.1	2.1	57.	.26*		ECART-TYPE
PERCNT:10TH	.60	12.5	13.5	12.0		28.	.05	L.0	10 <sup>e</sup> PERCNT
25TH	2.60	15.	15.	14.0	8.7	32.	.05	L.0	25 <sup>e</sup>
MEDIAN 50TH	3.00	16.0	18.5	15.0	9.2	47.	.07	L.0	50 <sup>e</sup> MEDIANE
75TH	3.60	21.0	20.0	19.0	9.8	126.	.10	L.0	75 <sup>e</sup>
90TH	4.40	22.0	21.0	20.5		150.	.14	L.0	90 <sup>e</sup>
SECONDARY CODE	02L						07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS LAS MG/L	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	11(0)	13(11)	13(0)			13(3)	12(5)	11(0)	ECHANTILLONS(IND.)
LOW	.4	L.0.	6.			L.001	L.1	.11	MINIMUM
HIGH	1.4	2.	20.			.015	1.6	.31	MAXIMUM
AVERAGE	.82	1.1*	12.1			.003*	.7*	.18	MOYENNE
STD.DEV.	.34	.3*	5.2			.004*	.5*	.06	ECART-TYPE
PERCNT:10TH	.5	L.0.	7.			L.001	L.1	.12	10 <sup>e</sup> PERCNT
25TH	.5	L.0.	7.			.001	.3*	.14	25 <sup>e</sup>
MEDIAN 50TH	.7	L.0.	11.			.001	.9	.17	50 <sup>e</sup> MEDIANE
75TH	1.1	L.0.	16.			.003	L.0	.19	75 <sup>e</sup>
90TH	1.3	1.	19.			.008	1.3	.24	90 <sup>e</sup>
SECONDARY CODE						35L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)	2(2)	1(0)	13(0)		11(10)	2(1)	11(4)	2(2)	ECHANTILLONS(IND.)
LOW	L.005	.10	.04		L.001	L.001	L.003	L.015	MINIMUM
HIGH	L.005	.10	.31		.002	.001	.007	L.015	MAXIMUM
AVERAGE			.13		.001*	.0010*	.004*		MOYENNE
STD.DEV.			.09		.000*	.0000*	.001*		ECART-TYPE
PERCNT:10TH			.05		L.001		L.003		10 <sup>e</sup> PERCNT
25TH			.06		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH	L.005		.07		L.001	.0010*	.004	L.015	50 <sup>e</sup> MEDIANE
75TH			.19		L.001		.005		75 <sup>e</sup>
90TH			.24		L.001		.006		90 <sup>e</sup>
SECONDARY CODE			02L		02L	02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0020** LAT. **57 D 18 M 23 S** LONG. **111 D 40 M 20 S**UTM **12 459510E 6351480 N**

FEB 11, 1976 TO/À APR 17, 1979

ELLS RIVER NEAR THE MOUTH NO.1 AOSERP

SUBM ID	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	ECHANTILLONS(IND.)
	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	13(0)	13(0)	2(1)	13(6)	13(7)	13(3)	11(2)	10(6)	
LOW	.010	.31	L.002	L.001	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	.069	1.65	.003	.010	.007	.028	.0032	.0004	MAXIMUM
AVERAGE	.027	.80	.002*	.002*	.002*	.007*	.0009*	.0002*	MOYENNE
STD.DEV.	.021	.45	.001*	.002*	.002*	.009*	.0010*	.0001*	ECART-TYPE
PERCNT:10TH	.011	.31		L.001	L.001	L.001	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.011	.45		L.001	L.001	.001	.0003	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.019	.65	.002*	.001	L.001	.003	.0005	L.0002	50 <sup>e</sup> MEDIANE
75TH	.034	1.18		.002	.004	.005	.0011	.0002	75 <sup>e</sup>
90TH	.061	1.36		.003	.005	.026	.0023	.0004	90 <sup>e</sup>
SECONDARY CODE					05L		01L		CODE DE SECOURS

SUBM ID	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	ECHANTILLONS(IND.)
	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)	2(0)	2(2)		1(0)	2(1)		2(2)	10(9)	
LOW	.10	L.10		.001	L.001		L.1	L.0001	MINIMUM
HIGH	.11	L.10		.001	.001		L.1	.0001	MAXIMUM
AVERAGE	.11				.001*			.0001*	MOYENNE
STD.DEV.	.01				.000*			.0000*	ECART-TYPE
PERCNT:10TH								L.0001	10 <sup>e</sup> PERCNT
25TH								L.0001	25 <sup>e</sup>
MEDIAN 50TH	.11	L.10			.001*		L.0	L.0001	50 <sup>e</sup> MEDIANE
75TH								L.0001	75 <sup>e</sup>
90TH								.0001*	90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

SUBM ID	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	ECHANTILLONS(IND.)
	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	13(10)	11(0)	8(0)	8(0)	9(0)	13(0)	12(0)	12(0)	
LOW	L.002	2.	0.	2.	250.	2.	76.	50.	MINIMUM
HIGH	.005	4.	23.	33.	2000.	48.	165.	114.	MAXIMUM
AVERAGE	.003*	2.	8.	13.	747.	16.	116.	80.	MOYENNE
STD.DEV.	.001*	1.	8.	11.	560.	15.	28.	19.	ECART-TYPE
PERCNT:10TH	L.002	2.				3.	77.	60.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	2.	5.	320.	4.	90.	61.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	5.	11.	610.	9.	123.	85.	50 <sup>e</sup> MEDIANE
75TH	L.004	2.	12.	20.	850.	26.	131.	92.	75 <sup>e</sup>
90TH	.005	2.				40.	142.	93.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0021 LAT. 57 D 22 M 30 S LONG. 112 D 33 M 40 S

UTM 12 406130 6359990 N  
OCT 08 1976 TO/A FEB 09 1979UPPER ELLS RIVER - 5 MILES BELOW  
GARDINER LAKES - AT WSC GAUGE - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL CACO3	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM MG/L	MG/L	REL. UNITS	JTU	PH UNITS	MG/L	PH UNITS	
SAMPLES(FLAGS)		27(0)	27(0)	27(0)	18(0)	24(0)	1(0)	27(0)	ECHANTILLONS(IND.)
LOW		70.	44.	39.4	5.	7.9	37.8		MINIMUM
HIGH		400.	218.	190.7	80.	40.0	211.6		MAXIMUM
AVERAGE		130.	71.	63.9	30.	4.4	62.3		MOYENNE
STD.DEV.		58.	30.	26.5	15.	7.9	30.8		ECART-TYPE
PERCNT:10TH		96	58.	50.9	20.	.5	48.8		10 <sup>e</sup> PERCNT
25TH		108.	60.	53.9	25.	1.3	50.1		25 <sup>e</sup>
MEDIAN 50TH		120.	65.	59.3	25.	2.4	57.1		50 <sup>e</sup> MEDIANE
75TH		139.	74.	65.8	35.	3.5	64.4		75 <sup>e</sup>
90TH		151.	80.	72.1	40.	6.0	69.6		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.) CO3	06201L BICARBONT. (CALCD.) HCO3	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG/L	MG/L	CL MG/L	S04 MG/L	
SAMPLES(FLAGS)		27(0)	27(0)	27(0)	27(0)	27(9)	27(9)	27(0)	ECHANTILLONS(IND.)
LOW		.1	1.4	10.0	3.5	0.	46.	.3	MINIMUM
HIGH		1.3	15.0	50.00	16.0	Q0.	Q258.	5.4	MAXIMUM
AVERAGE		.8	3.8	16.82	5.3	0.*	76.*	.9	MOYENNE
STD.DEV.		.3	2.5	6.97	2.2	0.*	37.*	1.0	ECART-TYPE
PERCNT:10TH		.5	2.4	13.0	4.2	0.	59.	.3	10 <sup>e</sup> PERCNT
25TH		.7	2.8	14.00	4.5	0.	61.	.4	25 <sup>e</sup>
MEDIAN 50TH		.9	3.2	15.50	4.9	0.	Q69.	.6	50 <sup>e</sup> MEDIANE
75TH		1.0	3.9	17.5	5.5	Q0.	79.	1.0	75 <sup>e</sup>
90TH		1.1	4.0	19.0	6.0	Q0.	85.	1.8	90 <sup>e</sup>
SECONDARY CODE		03L 02L	03L 02L	03L			03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
	SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)		27(0)	27(5)	8(1)	25(1)	27(1)	27(0)		ECHANTILLONS(IND.)
LOW		.1	L.003	L.003	.01	L.003	.026		MINIMUM
HIGH		7.85	.37	.011	.13	.04	.150		MAXIMUM
AVERAGE		1.036	.085*	.006*	.051*	.014*	.047		MOYENNE
STD.DEV.		1.406	.099*	.004*	.031*	.008*	.026		ECART-TYPE
PERCNT:10TH		55	.003		.02	.005	.030		10 <sup>e</sup> PERCNT
25TH		60	L.01	.003	.03	.010	.032		25 <sup>e</sup>
MEDIAN 50TH		.78	.056	.003	.04	.013	.037		50 <sup>e</sup> MEDIANE
75TH		92	.137	.009	.07	.020	.06		75 <sup>e</sup>
90TH		1 09	.195		.09	.021	.07		90 <sup>e</sup>
SECONDARY CODE		15L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0021** LAT. **57 D 22 M 30 S** LONG. **112 D 33 M 40 S**

UTM **12 406130E 6359990 N**  
OCT 08, 1976 TO/À FEB 09, 1979

UPPER ELLS RIVER - 5 MILES BELOW  
GARDINER LAKES - AT WSC GAUGE - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	27(0)	27(0)	27(0)	27(0)	3(0)	27(0)	27(4)	11(11)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.37	7.	9.	7.	2.0	10.	L.05	L.0	<b>MINIMUM</b>
<b>HIGH</b>	12.50	25.0	49.0	24.5	8.2	105.	.14	L.0	<b>MAXIMUM</b>
<b>AVERAGE</b>	3.81	13.4	13.3	12.5	5.5	43.	.09*		<b>MOYENNE</b>
<b>STD.DEV.</b>	3.70	3.9	7.5	3.7	3.2	21.	.03*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.53	9.0	9.	8.		20.	L.05	L.0	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	1.0	10.5	10.0	10.0		30.	.07	L.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	2.3	12.5	11.0	12.	6.4	39.	.09	L.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	5.2	15.	14.	15.0		47.	.10	L.0	<b>75<sup>e</sup></b>
<b>90TH</b>	9.9	18.0	16.5	17.		73.	.13	L.0	<b>90<sup>e</sup></b>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
<b>SAMPLES(FLAGS)</b>	27(0)	26(24)	8(0)	3(2)	6(6)	17(13)	18(8)	27(6)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.30	L.0.	7.	L.001	L.001	L.001	L.1	L.02	<b>MINIMUM</b>
<b>HIGH</b>	1.85	L2.5	19.	.002	L.01	.020	1.6	.23	<b>MAXIMUM</b>
<b>AVERAGE</b>	.69	1.1*	10.6	.0013*		.003*	.5*	.10*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.31	.3*	3.8	.0006*		.005*	.4*	.06*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.5	L1.0				L.001	L.1	L.02	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.5	L1.0	8.0		L.001	L.001	L.1	.05	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.6	L1.0	10.0	L.001	L.006	L.001	.4	.10	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.85	L.0.	11.5		L.01	L.001	.8	.16	<b>75<sup>e</sup></b>
<b>90TH</b>	1.0	1.				.008	1.0	.17	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		17(0)	27(2)	7(7)	26(26)	1(1)	27(20)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		.01	L.01	L.01	L.001	L.001	L.003		<b>MINIMUM</b>
<b>HIGH</b>		.19	.45	L.05	L.001	L.001	.005		<b>MAXIMUM</b>
<b>AVERAGE</b>		.07	.09*				.003*		<b>MOYENNE</b>
<b>STD.DEV.</b>		.05	.11*				.001*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.02	.02		L.001		L.003		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.05	.03	L.01	L.001		L.003		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.06	.04	L.05	L.001		L.003		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.07	.10	L.05	L.001		.003		<b>75<sup>e</sup></b>
<b>90TH</b>		.18	.29		L.001		.004		<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0021 LAT. 57 D 22M 30 S LONG. 112 D 33M 40 S

UTM 12 406130 6359990 N  
OCT 08 1976 TO/A FEB 09 1979UPPER ELLS RIVER - 5 MILES BELOW  
GARDINER LAKES - AT WSC GAUGE - AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED AS	34102L SELENIUM DISSOLVED SE	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	27(0)	27(0)	18(17)	27(25)	27(7)	27(1)	25(11)	26(23)	ECHANTILLONS(IND.)
LOW	.013	.18	L.001	L.001	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	.310	2.55	.002	.003	.021	.088	.005	.0009	MAXIMUM
AVERAGE	.045	.38	.002*	.002*	.004*	.012*	.0008*	.0003*	MOYENNE
STD.DEV.	.057	.45	.000*	.001*	.005*	.017*	.0010*	.0002*	ECART-TYPE
PERCNT:10TH	.016	.19	L.001	L.001	L.001	.002	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.021	.21	L.002	L.001	.001	.003	L.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.029	.30	L.002	L.002	.002	.006	L.0005	L.0002	50 <sup>e</sup> MEDIANE
75TH	.041	.36	L.002	L.002	.005	.015	L.001	L.0005	75 <sup>e</sup>
90TH	.090	.53	L.002	L.002	.011	.019	.0016	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED CD	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL HG	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	MG/L	
SAMPLES(FLAGS)			8(7)		18(16)			27(25)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.002			.0006	MAXIMUM
AVERAGE			.00*		.001*			.0001*	MOYENNE
STD.DEV.			.00*		.000*			.0001*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			.00*		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.00		L.001			L.0001	75 <sup>e</sup>
90TH					.002			L.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO. 100ML	MPN NO. 100ML	BACT DENS NO. ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	27(21)	27(0)	9(1)	9(0)	11(0)	26(0)	27(0)	26(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	2.	60.	1.	46.	37.	MINIMUM
HIGH	.007	8.	79.	130.	10000.	86.	264.	173.	MAXIMUM
AVERAGE	.002*	2.	11.*	24.	2237.	8.	84.	62.	MOYENNE
STD.DEV.	.001*	1.	26.*	40.	3158.	16.	39.	27.	ECART-TYPE
PERCNT:10TH	L.002	2.			140.	1.	59.	41.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	7.	160.	2.	69.	47.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	L2.	13.	290.	4.	75.	55.	50 <sup>e</sup> MEDIANE
75TH	L.002	2.	5.	17.	4500.	6.	89.	68.	75 <sup>e</sup>
90TH	.003	4.			5000.	13	102.	79.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0022** LAT. **57 D 39 M 31 S** LONG. **111 D 31 M 11 S**

UTM **12 469000E 6390610 N**  
NOV 08, 1976 TO/A MAR 07, 1979

UNNAMED CREEK 34 AIR MILES NORTH OF  
FORT MACKAY IMMEDIATELY BELOW SMALL

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	17(0)	17(0)	17(0)	12(0)	15(0)	6(0)	17(0)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	270.	174.	123.0	10.	2.0	7.9	60.9	-.4	<b>MINIMUM</b>
<b>HIGH</b>	600.	393.	279.6	40.	42.0	8.2	221.6	-.4	<b>MAXIMUM</b>
<b>AVERAGE</b>	384.	237.	187.9	28.	12.2		155.6		<b>MOYENNE</b>
<b>STD.DEV.</b>	85.	59.	42.0	10.	13.0		50.2		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	291.	179.	146.8	15.	2.9		63.0		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	320.	206.	158.5	20.	4.1	8.0	121.4		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	362.	220.	170.0	30.	5.2	8.1	160.0		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	425.	247.	227.3	35.	15.5	8.2	202.0		<b>75<sup>e</sup></b>
<b>90TH</b>	500.	342.	239.7	40.	37.0		211.6		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	17(0)	17(0)	17(0)	17(0)	17(5)	17(5)	17(0)	17(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	1.6	8.5	31.60	10.7	0.	Q74.	.6	9.3	<b>MINIMUM</b>
<b>HIGH</b>	4.1	25.0	79.0	20.0	2.	270.	2.4	170.0	<b>MAXIMUM</b>
<b>AVERAGE</b>	2.7	14.9	51.62	14.3	0.*	189.*	1.4	59.1	<b>MOYENNE</b>
<b>STD.DEV.</b>	.7	4.7	12.73	2.8	0.*	61.*	.4	42.4	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	1.7	8.5	38.50	11.5	0.	Q77.	.9	16.5	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	2.5	11.5	43.5	12.0	0.	148.	1.1	21.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	2.8	15.2	45.5	13.7	0.	193.	1.3	57.5	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	3.2	16.5	62.00	15.5	Q0.	246.	1.6	72.5	<b>75<sup>e</sup></b>
<b>90TH</b>	3.4	23.5	67.5	20.0	Q0.	258.	1.9	112.5	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO P04 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	17(0)	17(0)	4(1)	16(0)		17(0)	17(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.35	.004	L.003	.01		.006	.034		<b>MINIMUM</b>
<b>HIGH</b>	1.68	.180	.014	.300		.026	.130		<b>MAXIMUM</b>
<b>AVERAGE</b>	.982	.065	.007*	.106		.016	.077		<b>MOYENNE</b>
<b>STD.DEV.</b>	.355	.058	.005*	.092		.005	.027		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.46	.004		.01		.01	.037		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.73	.021	.003*	.038		.013	.060		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	1.01	.05	.006	.085		.015	.077		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.30	.110	.012	.140		.02	.098		<b>75<sup>e</sup></b>
<b>90TH</b>	1.35	.180		.300		.023	.11		<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0022 LAT 57 D 39 M 31 S LONG 111 D 31 M 11 S

UTM 12 469000E 6390610 N  
NOV 08 1976 TO/A MAR 07 1979UNNAMED CREEK 34 AIR MILES NORTH OF  
FORT MACKAY IMMEDIATELY BELOW SMALL

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	17(0)	17(0)	17(0)	17(0)	9(0)	17(0)	17(0)	7(7)	ECHANTILLONS(IND.)
LOW	5.60	5.0	12.5	3.0	.0	11.	.11	L0	MINIMUM
HIGH	15.8	52.0	50.5	50.5	15.4	280.	.40	L0	MAXIMUM
AVERAGE	11.95	17.1	32.7	14.8	9.3	62.	.27		MOYENNE
STD.DEV.	3.04	10.3	12.9	10.2	4.6	61.	.07		ECART-TYPE
PERCNT:10TH	8.3	9.5	13.0	5.		24.	.18		10 <sup>e</sup> PERCNT
25TH	9.70	13.	25.5	10.	6.3	30.	.24	L0	25 <sup>e</sup>
MEDIAN 50TH	11.9	13.5	30.	13.5	10.6	44.	.27	L0	50 <sup>e</sup> MEDIANE
75TH	14.6	20.0	46.0	15.0	12.2	67.	.30	L0	75 <sup>e</sup>
90TH	15.00	23.	50.0	20.		101.	.35		90 <sup>e</sup>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	17(0)	17(16)	5(0)	2(2)	4(4)	15(10)	14(3)	16(5)	ECHANTILLONS(IND.)
LOW	.1	L.1	5.	L.001	L.001	L.001	L.1	L.02	MINIMUM
HIGH	1.1	2.0	10.	L.001	L.01	.022	2.2	.37	MAXIMUM
AVERAGE	.69	1.0*	7.8			.003*	.6*	.10*	MOYENNE
STD.DEV.	.30	.3*	2.2			.005*	.6*	.10*	ECART-TYPE
PERCNT:10TH	.25	L0.				L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	.5	L1.0	6.		L.001	L.001	.2	L.02	25 <sup>e</sup>
MEDIAN 50TH	.7	L0.	9.	L.0010	L.006	L.001	.5	.09	50 <sup>e</sup> MEDIANE
75TH	.9	L1.0	9.		L.010	.001	.7	.15	75 <sup>e</sup>
90TH	1.10	L1.0				.005	1.4	.22	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXA VALENT CR	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	MG/L	MG/L	
SAMPLES(FLAGS)		12(0)	17(0)	5(5)	17(17)		16(13)		ECHANTILLONS(IND.)
LOW		.02	.02	L.01	L.001		L.003		MINIMUM
HIGH		.9	.37	L.05	L.001		.010		MAXIMUM
AVERAGE		.15	.11				.004*		MOYENNE
STD.DEV.		.24	.12				.002*		ECART-TYPE
PERCNT:10TH		.03	.02		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.04	.03	L.05	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.10	.06	L.05	L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.14	.10	L.05	L.001		L.003		75 <sup>e</sup>
90TH		.14	.35		L.001		.005		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0022** LAT. **57 D 39 M 31 S** LONG. **111 D 31 M 11 S**UTM **12 469000E 6390610 N**  
NOV 08, 1976 TO/A MAR 07, 1979UNNAMED CREEK 34 AIR MILES NORTH OF  
FORT MACKAY IMMEDIATELY BELOW SMALL

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	17(0)	17(0)	12(12)	17(11)	17(3)	17(0)	17(5)	16(13)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.091	.57	L.001	L.001	L.001	.001	L.0002	L.0002	<b>MINIMUM</b>
<b>HIGH</b>	.480	1.95	L.002	.008	.006	.024	.0069	L.0005	<b>MAXIMUM</b>
<b>AVERAGE</b>	.241	1.22		.003*	.003*	.008	.0010*	.0003*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.127	.43		.002*	.002*	.005	.0016*	.0001*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.091	.69	L.002	L.002	L.001	.003	.0002	L.0002	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.140	.83	L.002	L.002	.001	.005	L.0005	L.0002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.193	1.15	L.002	L.002	.002	.007	.0005	L.0002	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.31	1.65	L.002	.002	.003	.010	L.001	.0004*	<b>75<sup>e</sup></b>
<b>90TH</b>	.440	1.78	L.002	.007	.006	.013	.0014	L.0005	<b>90<sup>e</sup></b>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			6(5)		12(12)			17(14)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			L.00		L.001			L.0001	<b>MINIMUM</b>
<b>HIGH</b>			L.01		L.001			.0002	<b>MAXIMUM</b>
<b>AVERAGE</b>			.00*					.0001*	<b>MOYENNE</b>
<b>STD.DEV.</b>			.00*					.0000*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					L.001			L.0001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			L.00		L.001			L.0001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			.00*		L.001			L.0001	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			L.01		L.001			L.0001	<b>75<sup>e</sup></b>
<b>90TH</b>					L.001			.0002	<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	17(14)	17(0)	10(0)	10(0)	10(1)	16(0)	17(0)	17(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.002	2.	0.	0.	130.	2.	191.	138.	<b>MINIMUM</b>
<b>HIGH</b>	.008	8.	240.	350.	30000.	74.	452.	388.	<b>MAXIMUM</b>
<b>AVERAGE</b>	.003*	3.	29.	47.	5594.*	15.	251.	202.	<b>MOYENNE</b>
<b>STD.DEV.</b>	.002*	2.	75.	107.	9416.*	18.	65.	60.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.002	2.	0.	2.	140.	3.	194.	141.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.002	2.	0.	7.	150.	6.	207.	168.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.002	2.	3.	10.	1130.	10.	229.	178.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.002	2.	13.	22.	6800.	15.	268.	221.	<b>75<sup>e</sup></b>
<b>90TH</b>	.006	8.	131.	200.	21000.	33.	330.	278.	<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0023 LAT 57 D 32 M 20 S LONG 111 D 40 M 36 S

TIM 12 459500 6377360 W  
OCT 09 1976 TO/A NOV 07 1977ASPHALT CREEK NEAR FORT MACKAY - ON  
RIGHT BANK 30 AIR MILES NORTH OF FORT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	10(0)	8(0)	5(0)	10(0)		ECHANTILLONS(IND.)
LOW	221.	139.	84.6	20.	1.4	7.1	37.2		MINIMUM
HIGH	810.	456.	398.0	60.	890.	8.1	435.2		MAXIMUM
AVERAGE	440.	271.	178.3	37.	219.8		98.2		MOYENNE
STD.DEV.	160.	88.	86.2	12.	287.4		119.8		ECART-TYPE
PERCNT:10TH	256.	161.	94.9	20.			40.3		10 <sup>e</sup> PERCNT
25TH	342.	213.	141.7	25.	42.6	7.6	48.1		25 <sup>e</sup>
MEDIAN 50TH	431.	264.	157.7	38.	150.5	7.7	59.1		50 <sup>e</sup> MEDIANE
75TH	490.	316.	196.1	45.	240.5	7.8	79.0		75 <sup>e</sup>
90TH	660.	393.	300.8	53.			266.9		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	9(0)	10(0)	10(0)	10(0)	10(0)	ECHANTILLONS(IND.)
LOW	1.9	13.5	21.5	7.5	0.	45.	1.9	28.5	MINIMUM
HIGH	4.5	30.0	105.0	18.5	0.	531.	4.9	185.0	MAXIMUM
AVERAGE	2.7	21.5	45.55	13.8	0.	120.	3.3	122.8	MOYENNE
STD.DEV.	.8	5.3	23.08	3.6	0.	146.	1.1	48.8	ECART-TYPE
PERCNT:10TH	2.0	14.5	24.25		0.	49.	2.0	45.5	10 <sup>e</sup> PERCNT
25TH	2.1	18.0	35.0	13.0	0.	59.	2.2	96.5	25 <sup>e</sup>
MEDIAN 50TH	2.5	21.0	39.25	14.0	0.	72.	3.5	139.8	50 <sup>e</sup> MEDIANE
75TH	3.0	26.0	50.5	16.4	0.	96.	4.1	153.0	75 <sup>e</sup>
90TH	3.8	29.0	78.00		0.	325.	4.8	175.5	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL	07110L NITROGEN DISSOLVED	07206L NITROGEN DISSOLVED	07555L NITROGEN DISSOLVED	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)	10(0)	10(2)	2(2)	10(0)		10(0)	10(0)		ECHANTILLONS(IND.)
LOW	.43	.005	L.003	.01		.003	.02		MINIMUM
HIGH	5.60	.033	L.003	.16		.04	.63		MAXIMUM
AVERAGE	1.553	.017*		.072		.013	.178		MOYENNE
STD.DEV.	1.535	.009*		.055		.011	.177		ECART-TYPE
PERCNT:10TH	.500	.007*		.015		.004	.035		10 <sup>e</sup> PERCNT
25TH	.61	L.01		.02		.008	.08		25 <sup>e</sup>
MEDIAN 50TH	.975	.015	L.003	.065		.010	.113		50 <sup>e</sup> MEDIANE
75TH	1.86	.023		.12		.02	.20		75 <sup>e</sup>
90TH	3.800	.032		.155		.030	.455		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0023** LAT. **57 D 32 M 20 S** LONG. **111 D 40 M 36 S**UTM **12 459500E 6377360 N**  
OCT 09, 1976 TO/A NOV 07, 1977ASPHALT CREEK NEAR FORT MACKAY - ON  
RIGHT BANK 30 AIR MILES NORTH OF FORT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SI02 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>6(0)</b>	<b>10(0)</b>	<b>10(0)</b>	<b>2(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>5.2</b>	<b>8.</b>	<b>9.</b>	<b>5.</b>	<b>7.1</b>	<b>29.</b>	<b>.28</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>21.0</b>	<b>21.</b>	<b>61.0</b>	<b>14.</b>	<b>14.7</b>	<b>90.</b>	<b>.45</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>10.71</b>	<b>13.4</b>	<b>17.4</b>	<b>10.3</b>	<b>10.1</b>	<b>54.</b>	<b>.35</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>4.41</b>	<b>4.0</b>	<b>15.6</b>	<b>2.9</b>	<b>2.9</b>	<b>17.</b>	<b>.06</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>5.80</b>	<b>8.3</b>	<b>9.0</b>	<b>6.0</b>		<b>32.</b>	<b>.29</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>8.5</b>	<b>10.0</b>	<b>10.0</b>	<b>7.5</b>	<b>7.3</b>	<b>44.</b>	<b>.29</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>9.70</b>	<b>13.5</b>	<b>12.8</b>	<b>11.5</b>	<b>9.7</b>	<b>52.</b>	<b>.35</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>13.0</b>	<b>14.5</b>	<b>16.5</b>	<b>12.0</b>	<b>12.</b>	<b>64.</b>	<b>.40</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>17.00</b>	<b>19.5</b>	<b>39.3</b>	<b>13.5</b>		<b>79.</b>	<b>.43</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
<b>SAMPLES(FLAGS)</b>	<b>10(0)</b>	<b>10(8)</b>		<b>2(2)</b>	<b>2(2)</b>	<b>10(9)</b>	<b>10(3)</b>	<b>10(7)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.45</b>	<b>L.1.0</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.3</b>	<b>3.0</b>		<b>L.001</b>	<b>L.01</b>	<b>.020</b>	<b>1.7</b>	<b>.14</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.05</b>	<b>1.2*</b>				<b>.003*</b>	<b>.5*</b>	<b>.05*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.26</b>	<b>.6*</b>				<b>.006*</b>	<b>.6*</b>	<b>.05*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.68</b>	<b>L.1.0</b>				<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.95</b>	<b>L.1.0</b>				<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.10</b>	<b>L.1.0</b>		<b>L.0010</b>	<b>L.010</b>	<b>L.001</b>	<b>.4</b>	<b>L.02</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.25</b>	<b>L.1.0</b>				<b>L.001</b>	<b>1.0</b>	<b>.08</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.30</b>	<b>2.0</b>				<b>.010*</b>	<b>1.4</b>	<b>.14</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		<b>10(0)</b>	<b>10(1)</b>	<b>2(2)</b>	<b>9(7)</b>	<b>1(0)</b>	<b>10(5)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.13</b>	<b>L.01</b>	<b>L.05</b>	<b>L.001</b>	<b>.004</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.27</b>	<b>11.20</b>	<b>L.05</b>	<b>.004</b>	<b>.004</b>	<b>.031</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.19</b>	<b>3.53*</b>		<b>.001*</b>		<b>.009*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.05</b>	<b>4.07*</b>		<b>.001*</b>		<b>.010*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.14</b>	<b>.14*</b>				<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.16</b>	<b>.41</b>		<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.17</b>	<b>1.09</b>	<b>L.050</b>	<b>L.001</b>		<b>.003*</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.25</b>	<b>6.90</b>		<b>L.001</b>		<b>.015</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.27</b>	<b>9.55</b>				<b>.025</b>		<b>90<sup>e</sup></b>
SECONDARY CODE				02L	02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0023 LAT 57 D 32 M 20 S LONG 111 D 40 M 36 S

FORM 12 4595001 6377360 N  
OCT 09 1976 TO/A NOV 07 1977ASPHALT CREEK NEAR FORT MACKAY - ON  
RIGHT BANK 30 AIR MILES NORTH OF FORT

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	10(5)	10(1)	10(0)	10(0)	9(2)	9(9)	ECHANTILLONS(IND.)
LOW	.135	.16	L.002	L.002	.003	.018	L.0002	L.0002	MINIMUM
HIGH	.54	27.7	.028	.046	.033	.155	.0023	L.0005	MAXIMUM
AVERAGE	.324	6.78	.006*	.017*	.009	.042	.0010*		MOYENNE
STD.DEV.	.143	7.75	.008*	.013*	.009	.041	.0007*		ECART-TYPE
PERCNT:10TH	.148	1.41	L.002	.004*	.004	.019			10 <sup>e</sup> PERCNT
25TH	.195	2.90	L.002	.008	.004	.019	.0003	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.361	4.23	.002*	.012	.006	.030	.0009	L.0002	50 <sup>e</sup> MEDIANE
75TH	.435	7.60	.006	.026	.009	.036	.0015	L.0005	75 <sup>e</sup>
90TH	.510	17.70	.018	.038	.022	.105			90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBL. CD MG/L	51301L ANTIMONY EXTRBL. SB MG/L	56301L BARIUM EXTRBL. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			7(5)		10(9)			10(10)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.002			L.0002	MAXIMUM
AVERAGE			.00*		.001*				MOYENNE
STD.DEV.			.00*		.000*				ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH					.001*			L.0001	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL MPN NO./100ML	36001L COLIFORMS TOTAL MPN NO./100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO./ML	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTRABLE	10551L RESIDUE FIXED FILTRABLE	
SUBM ID	PB MG/L	TON	MPN NO./100ML	MPN NO./100ML	NO./ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	9(4)	10(0)	5(0)	5(0)	5(0)	10(0)	10(0)	10(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	5.	5.	240.	4.	150.	129.	MINIMUM
HIGH	.035	4.	79.	240.	8800.	1058.	502.	460.	MAXIMUM
AVERAGE	.008*	3.	29.	81.	2444.	189.	278.	246.	MOYENNE
STD.DEV.	.011*	1.	31.	103.	3581.	320.	96.	91.	ECART-TYPE
PERCNT:10TH		2.				11.	183.	156.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	5.	7.	630.	19.	217.	189.	25 <sup>e</sup>
MEDIAN 50TH	.002	2.	23.	23.	1250.	58.	266.	234.	50 <sup>e</sup> MEDIANE
75TH	.008	4.	33.	130.	1300.	184.	328.	288.	75 <sup>e</sup>
90TH		4.				677.	416.	381.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0024** LAT. **57 D 33M 10 S** LONG. **111 D 39M 20 S**

UTM **12 460770E 6378890 N**  
MAY 13, 1976 TO/A NOV 15, 1977

EYMUNDSON CREEK APPROXIMATELY 4000  
METERS UPSTREAM OF CONFLUENCE WITH

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	11(0)	11(0)	11(2)	11(0)	11(0)	5(0)	11(0)	3(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	119.	69.	36.5	25.	3.6	7.1	36.0	-.7	<b>MINIMUM</b>
<b>HIGH</b>	2800.	1601.	1125.5	250.	440.	8.2	1000.0	.2	<b>MAXIMUM</b>
<b>AVERAGE</b>	659.	395.	269.1*	89.	73.9		197.6		<b>MOYENNE</b>
<b>STD.DEV.</b>	771.	442.	323.1*	67.	125.5		292.8		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	188.	106.	52.6	30.	10.2		45.0		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	231.	131.	63.0	30.	12.8	7.6	48.8		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	426.	265.	Q178.0	60.	24.0	7.7	82.0	-.3	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	780.	548.	350.7	110.	83.0	7.9	157.		<b>75<sup>e</sup></b>
<b>90TH</b>	1110.	644.	526.1	160.	100.		464.0		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	2.4	9.7	8.5	3.7	0.	44.	2.2	17.8	<b>MINIMUM</b>
<b>HIGH</b>	26.5	128.0	210.0	146.0	0.	1219.	24.5	466.0	<b>MAXIMUM</b>
<b>AVERAGE</b>	6.3	34.9	60.63	28.6	0.	241.	6.3	139.9	<b>MOYENNE</b>
<b>STD.DEV.</b>	7.0	32.1	62.24	41.7	0.	357.	6.3	135.1	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	2.6	16.5	12.5	5.2	0.	55.	2.7	32.6	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	2.7	22.	14.5	6.5	0.	59.	3.5	35.8	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	4.1	24.0	47.8	14.2	0.	100.	3.8	132.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	5.2	40.0	91.0	30.0	0.	191.	7.2	178.	<b>75<sup>e</sup></b>
<b>90TH</b>	10.0	40.0	122.5	53.5	0.	566.	8.0	291.0	<b>90<sup>e</sup></b>
SECONDARY CODE	02L 03L	02L 03L	03L				03L 06L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	8(0)	9(3)		8(0)	3(0)	8(1)	8(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.75	L.003		.03	.44	.008	.02		<b>MINIMUM</b>
<b>HIGH</b>	5.10	.14		.25	.50	.08	.36		<b>MAXIMUM</b>
<b>AVERAGE</b>	2.155	.038*		.123	.48	.024*	.174		<b>MOYENNE</b>
<b>STD.DEV.</b>	1.346	.045*		.088	.03	.024*	.103		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	1.365	L.01		.040		.010*	.120		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	1.865	.02		.110	.5	.017	.150		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	2.465	.06		.200		.025	.238		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0024 LAT 57 D 33 M 10 S LONG 111 D 39 M 20 S

UTM 12 460770 6378890  
MAY 13 1976 TO/A NOV 15 1977EYMUNDSON CREEK APPROXIMATELY 4000  
METERS UPSTREAM OF CONFLUENCE WITH

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	11(0)	11(0)	11(0)	11(0)	4(0)	8(0)	11(0)	1(1)	ECHANTILLONS(IND.)
LOW	1.5	7.	7.	5.	4.3	40.	.09	L.0	MINIMUM
HIGH	104.	50.0	150.0	43.0	8.6	207.	.60	L.0	MAXIMUM
AVERAGE	19.20	26.7	34.4	20.3	6.2	101.	.34		MOYENNE
STD.DEV.	29.30	12.2	42.2	11.2	2.2	48.	.15		ECART-TYPE
PERCNT:10TH	2.8	15.	9.	11.			.17		10 <sup>e</sup> PERCNT
25TH	3.6	17.	10.	12.	4.3	82.	.22		25 <sup>e</sup>
MEDIAN 50TH	11.2	28.5	16.	17.	6.0	92.	.38		50 <sup>e</sup> MEDIANE
75TH	18.4	36.0	42.	30.0	8.1	106.	.46		75 <sup>e</sup>
90TH	29.0	38.	64.	32.			.48		90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHEOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	8(0)	11(4)	3(0)	1(1)	1(1)	11(7)	9(3)	8(3)	ECHANTILLONS(IND.)
LOW	.70	L.1.0	13.	L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	2.30	7.	16.	L.001	L.01	.007	2.0	.31	MAXIMUM
AVERAGE	1.46	2.5*	14.7			.002*	.7*	.09*	MOYENNE
STD.DEV.	.46	1.9*	1.5			.002*	.7*	.12*	ECART-TYPE
PERCNT:10TH		L.1.0				L.001			10 <sup>e</sup> PERCNT
25TH	1.20	L.1.0				L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.47	1.5	15.			L.001	.5	.03	50 <sup>e</sup> MEDIANE
75TH	1.65	3.				.004	.9	.16	75 <sup>e</sup>
90TH		4.5				L.005			90 <sup>e</sup>
SECONDARY CODE						35L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	MG/L	
SAMPLES(FLAGS)	3(3)	11(0)	11(0)	1(1)	8(8)	3(1)	8(5)	3(3)	ECHANTILLONS(IND.)
LOW	L.005	.10	.04	L.05	L.001	L.001	L.003	L.015	MINIMUM
HIGH	L.005	.90	4.25	L.05	L.001	.006	.010	L.015	MAXIMUM
AVERAGE		.26	.80			.0040*	.005*		MOYENNE
STD.DEV.		.22	1.29			.0026*	.003*		ECART-TYPE
PERCNT:10TH		.15	.06						10 <sup>e</sup> PERCNT
25TH		.17	.16		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH	L.005	.20	.21		L.001	.005	L.003	L.015	50 <sup>e</sup> MEDIANE
75TH		.23	.89		L.001		.006		75 <sup>e</sup>
90TH		.29	2.1						90 <sup>e</sup>
SECONDARY CODE			02L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0024** LAT. **57 D 33M 10 S** LONG. **111 D 39M 20 S**

UTM **12 460770E 6378890 N**  
MAY 13, 1976 TO/A NOV 15, 1977

EYMUNDSON CREEK APPROXIMATELY 4000  
METERS UPSTREAM OF CONFLUENCE WITH

	25304L MANGANESE EXTRBLE. MN MG/L	26304L IRON EXTRBLE. FE MG/L	27302L COBALT EXTRBLE. CO MG/L	28302L NICKEL EXTRBLE. NI MG/L	29301L COPPER EXTRBL. CU MG/L	30305L ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	11(0)	11(0)	11(5)	11(1)	11(0)	10(0)	11(6)	11(8)	ECHANTILLONS(IND.)
LOW	.12	.15	L.002	L.002	.002	.010	L.0002	L.0002	MINIMUM
HIGH	2.00	8.55	.014	.046	.020	.066	.0015	.0006	MAXIMUM
AVERAGE	.744	4.46	.005*	.018*	.007	.026	.0007*	.0004*	MOYENNE
STD.DEV.	.665	3.31	.004*	.016*	.006	.017	.0004*	.0002*	ECART-TYPE
PERCNT:10TH	.180	.37	L.002	.003	.003	.011	.0004	L.0002	10 <sup>e</sup> PERCNT
25TH	.215	.39	L.002	.004	.003	.013	L.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.37	4.20	.004	.016	.005	.022	L.0005	L.0005	50 <sup>e</sup> MEDIANE
75TH	1.17	7.80	.008	.032	.012	.032	L.001	.0005	75 <sup>e</sup>
90TH	1.82	8.00	.011	.044	.015	.052	.0011	.0006	90 <sup>e</sup>
SECONDARY CODE			01L	01L	05L		01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)	3(0)	3(3)	7(7)	3(2)	10(7)		3(1)	8(6)	ECHANTILLONS(IND.)
LOW	.25	L.10	L.00	L.001	L.001		L.1	L.0001	MINIMUM
HIGH	.33	L.10	L.01	.001	.002		.2	.0027	MAXIMUM
AVERAGE	.30			.001*	.001*		.1*	.0004*	MOYENNE
STD.DEV.	.05			.000*	.000*		.1*	.0009*	ECART-TYPE
PERCNT:10TH					L.001				10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH	.33	L.10	L.00	L.001	L.001		.1	L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		.001			.0002*	75 <sup>e</sup>
90TH					.002				90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

	82301L LEAD EXTRBLE. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	9(7)	8(0)	5(1)	5(1)	5(0)	11(0)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	50.	8.	77.	49.	MINIMUM
HIGH	.033	8.	L.2.	79.	20000.	696.	1750.	1630.	MAXIMUM
AVERAGE	.007*	3.	0.*	20.*	6870.	109.	443.	379.	MOYENNE
STD.DEV.	.010*	2.	1.*	33.*	9144.	203.	484.	460.	ECART-TYPE
PERCNT:10TH						9.	126.	89.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	L.2.	100.	14.	140.	97.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	0.	9.	1200.	25.	328.	254.	50 <sup>e</sup> MEDIANE
75TH	L.004	4.	0.	11.	13000.	91.	640.	540.	75 <sup>e</sup>
90TH						207.	710.	648.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

00AT07DA0025 57 27M 55 (ONG) 111 39M 14

12 460780 6369150  
OCT 09 1976 TO/A MAY 03 1978PIERRE RIVER - 20 MILES NORTH OF FORT  
MACKAY - AT WSC GAUGE - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	11(0)	11(0)	11(0)	11(0)	9(0)	7(0)	11(0)		ECHANTILLONS(IND.)
LOW	190.	139.	84.2	40.	2.5	7.7	28.0		MINIMUM
HIGH	442.	245.	165.0	60.	146.5	8.2	130.0		MAXIMUM
AVERAGE	344.	208.	130.4	54.	20.5		82.6		MOYENNE
STD.DEV.	71.	35.	22.5	8.	47.3		29.3		ECART-TYPE
PERCNT:10TH	248.	153.	97.4	45.			58.4		10 <sup>e</sup> PERCNT
25TH	335.	198.	124.4	45.	3.5	7.8	64.0		25 <sup>e</sup>
MEDIAN 50TH	350.	211.	138.5	60.	3.9	7.9	77.9		50 <sup>e</sup> MEDIANE
75TH	400.	237.	140.5	60.	6.7	8.1	107.6		75 <sup>e</sup>
90TH	408.	244.	146.3	60.			114.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW	2.2	12.7	21.5	7.4	0.	34.	1.9	50.0	MINIMUM
HIGH	4.6	25.5	42.5	14.3	0.	158.	6.4	123.5	MAXIMUM
AVERAGE	3.5	21.9	33.55	11.3	0.	101.	3.8	84.2	MOYENNE
STD.DEV.	.7	4.3	5.84	2.0	0.	36.	1.4	24.8	ECART-TYPE
PERCNT:10TH	2.7	14.5	25.0	8.5	0.	71.	2.3	58.5	10 <sup>e</sup> PERCNT
25TH	3.2	21.5	32.5	10.5	0.	78.	2.7	59.0	25 <sup>e</sup>
MEDIAN 50TH	3.5	23.5	35.0	11.8	0.	95.	3.7	80.0	50 <sup>e</sup> MEDIANE
75TH	4.0	25.0	36.5	12.5	0.	131.	5.0	110.0	75 <sup>e</sup>
90TH	4.2	25.5	38.0	12.8	0.	139.	5.4	112.0	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L	
SAMPLES(FLAGS)	11(0)	11(4)	4(2)	11(1)		11(0)	11(0)		ECHANTILLONS(IND.)
LOW	.065	L.003	L.003	L.01		.006	.034		MINIMUM
HIGH	1.86	.08	.011	.13		.02	.23		MAXIMUM
AVERAGE	.903	.022*	.005*	.053*		.013	.092		MOYENNE
STD.DEV.	.495	.025*	.004*	.044*		.005	.063		ECART-TYPE
PERCNT:10TH	.30	.007		.01		.009	.047		10 <sup>e</sup> PERCNT
25TH	.65	.007	L.003	.02		.009	.048		25 <sup>e</sup>
MEDIAN 50TH	.93	L.01	.003*	.04		.011	.066		50 <sup>e</sup> MEDIANE
75TH	1.28	.04	.007	.10		.020	.11		75 <sup>e</sup>
90TH	1.31	.050		.12		.02	.19		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0025** LAT. **57 D 27 M 55 S** LONG. **111 D 39 M 14 S**

UTM **12 460780 E 6369150 N**  
OCT 09, 1976 TO/A MAY 03, 1978

PIERRE RIVER - 20 MILES NORTH OF FORT  
MACKAY - AT WSC GAUGE -AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>7(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>2(2)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	4.3	7.	6.0	6.5	5.0	25.	.06	L.0	MINIMUM
HIGH	14.3	34.	28.0	33.	13.6	96.	.9	L.0	MAXIMUM
AVERAGE	8.31	19.7	16.2	17.5	9.6	55.	.37		MOYENNE
STD.DEV.	2.89	8.5	6.3	7.9	3.3	24.	.20		ECART-TYPE
PERCNT:10TH	4.9	9.0	10.	7.		31.	.27		10 <sup>e</sup> PERCNT
25TH	5.4	16.	12.	13.	6.9	37.	.31		25 <sup>e</sup>
MEDIAN 50TH	9.0	18.0	15.	18.0	10.6	44.	.34	L.0	50 <sup>e</sup> MEDIANE
75TH	9.8	25.0	22.0	24.	13.3	74.	.42		75 <sup>e</sup>
90TH	10.5	33.	23.5	25.0		87.	.43		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>11(0)</b>	<b>11(10)</b>		<b>2(2)</b>	<b>3(3)</b>	<b>10(6)</b>	<b>10(2)</b>	<b>11(3)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	.22	L.1.0		L.001	L.001	L.001	L.1	L.02	MINIMUM
HIGH	1.20	3.0		L.001	L.01	.029	1.0	.23	MAXIMUM
AVERAGE	.84	1.2*				.006*	.4*	.10*	MOYENNE
STD.DEV.	.29	.6*				.009*	.3*	.09*	ECART-TYPE
PERCNT:10TH	.5	L.1.0				L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	.65	L.1.0				L.001	.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.9	L.1.0		L.0010	L.01	L.001	.4	.05	50 <sup>e</sup> MEDIANE
75TH	1.1	L.1.0				.008	.5	.19	75 <sup>e</sup>
90TH	1.1	L.1.0				.019	.8	.22	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		<b>11(0)</b>	<b>12(0)</b>	<b>5(5)</b>	<b>11(9)</b>	<b>1(1)</b>	<b>12(10)</b>		<b>ECHANTILLONS(IND.)</b>
LOW		.04	.02	L.01	L.001	L.001	L.003		MINIMUM
HIGH		.28	.47	L.05	.002	L.001	.006		MAXIMUM
AVERAGE		.16	.14		.001*		.003*		MOYENNE
STD.DEV.		.06	.13		.000*		.001*		ECART-TYPE
PERCNT:10TH		.12	.02		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.12	.06	L.05	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.15	.11	L.05	L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.21	.17	L.05	L.001		L.003		75 <sup>e</sup>
90TH		.22	.33		.001		.005		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0025 LAT 57 D 27 M 55 S LONG 111 D 39 M 14 S

UTM 12 460780 6369150 N

OCT 09 1976 TO/A MAY 03 1978

PIERRE RIVER - 20 MILES NORTH OF FORT  
MACKAY - AT WSC GAUGE -AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	12(0)	12(0)	12(11)	12(4)	12(0)	12(0)	10(4)	11(9)	ECHANTILLONS(IND.)
LOW	.046	.40	L.001	L.002	.002	.005	L.0002	L.0002	MINIMUM
HIGH	.883	7.10	.004	.021	.016	.034	.0043	.0009	MAXIMUM
AVERAGE	.328	1.93	.002*	.006*	.005	.014	.0009*	.0004*	MOYENNE
STD.DEV.	.281	1.80	.001*	.006*	.004	.007	.0012*	.0003*	ECART-TYPE
PERCNT:10TH	.081	.97	L.002	L.002	.002	.010	.0003*	L.0002	10 <sup>e</sup> PERCNT
25TH	.148	.98	L.002	L.002	.003	.011	.0004	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.222	1.22	L.002	.004	.003	.013	.0005*	L.0002	50 <sup>e</sup> MEDIANE
75TH	.400	2.15	L.002	.008	.007	.016	.0009	L.0005	75 <sup>e</sup>
90TH	.88	3.25	L.002	.010	.008	.019	.0026*	.0008	90 <sup>e</sup>
SECONDARY CODE					06L 05L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			6(5)		12(12)			11(10)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		L.001			.0002	MAXIMUM
AVERAGE			.00*					.0001*	MOYENNE
STD.DEV.			.00*					.0000*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			.00*		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH					L.001			L.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	12(7)	11(0)	6(0)	6(0)	6(0)	11(0)	11(0)	10(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	2.	70.	3.	144.	153.	MINIMUM
HIGH	.029	4.	79.	240.	25000.	253.	260.	239.	MAXIMUM
AVERAGE	.005*	3.	16.	66.	5987.	31.	219.	198.	MOYENNE
STD.DEV.	.008*	1.	31.	98.	9506.	74.	37.	26.	ECART-TYPE
PERCNT:10TH	L.002	2.				4.	165.	161.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	2.	650.	4.	204.	178.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	5.	12.	2750.	7.	225.	203.	50 <sup>e</sup> MEDIANE
75TH	.002	4.	8.	130.	4700.	9.	250.	213.	75 <sup>e</sup>
90TH	.006	4.				38.	258.	231.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0026** LAT. **57 D 24M 12 S** LONG. **111 D 40M 57 S**

UTM **12 459000E 6362270 N**  
NOV 08, 1976 TO/A MAR 20, 1978

CALUMET RIVER NEAR FORT MACKAY - ON  
RIGHT BANK 16 AIR MILES NORTH OF FORT

	02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>12(0)</b>	<b>8(0)</b>	<b>13(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	372.	198.	125.2	65.	.5	7.4	161.0		MINIMUM
HIGH	1920.	1161.	650.7	170.	60.0	8.2	702.0		MAXIMUM
AVERAGE	752.	453.	272.5	124.	10.7		325.5		MOYENNE
STD.DEV.	527.	327.	177.2	27.	17.4		193.4		ECART-TYPE
PERCNT:10TH	382.	225.	136.8	90.	.9		171.0		10 <sup>e</sup> PERCNT
25TH	400.	234.	146.7	115.	1.8	7.9	195.0		25 <sup>e</sup>
MEDIAN 50TH	460.	261.	156.3	125.	3.4	7.9	204.0		50 <sup>e</sup> MEDIANE
75TH	960.	583.	402.0	130.	12.2	8.0	447.2		75 <sup>e</sup>
90TH	1750.	1064.	550.4	160.	25.5		676.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	2.0	35.0	32.5	10.7	0.	196.	12.0	3.8	MINIMUM
HIGH	10.5	225.0	160.0	61.0	0.	856.	165.0	118.0	MAXIMUM
AVERAGE	4.6	80.0	68.00	24.9	0.	397.	43.4	36.9	MOYENNE
STD.DEV.	2.9	66.7	43.14	16.9	0.	236.	51.8	37.6	ECART-TYPE
PERCNT:10TH	2.3	36.0	35.5	11.7	0.	208.	13.0	9.4	10 <sup>e</sup> PERCNT
25TH	2.6	39.0	37.5	13.2	0.	238.	14.7	10.5	25 <sup>e</sup>
MEDIAN 50TH	2.9	46.0	40.0	14.0	0.	249.	18.0	21.0	50 <sup>e</sup> MEDIANE
75TH	6.5	104.0	97.0	38.5	0.	545.	48.5	39.7	75 <sup>e</sup>
90TH	9.4	215.0	138.0	50.0	0.	824.	145.0	101.0	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>13(2)</b>	<b>3(1)</b>	<b>13(0)</b>		<b>13(0)</b>	<b>13(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	.85	.003	L.003	.02		.015	.072		MINIMUM
HIGH	4.23	.192	.006	.88		.072	.72		MAXIMUM
AVERAGE	2.419	.043*	.005*	.290		.042	.174		MOYENNE
STD.DEV.	1.135	.059*	.002*	.318		.019	.170		ECART-TYPE
PERCNT:10TH	1.10	.003		.04		.018	.076		10 <sup>e</sup> PERCNT
25TH	1.52	.007		.05		.031	.090		25 <sup>e</sup>
MEDIAN 50TH	2.45	L.01	.006	.11		.037	.124		50 <sup>e</sup> MEDIANE
75TH	3.40	.049		.56		.06	.17		75 <sup>e</sup>
90TH	3.82	.135		.82		.07	.23		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0026 LAT 57° 24' 12" S LONG 111° 40' 57" S

UTM 12 459000E 6362270 N  
NOV 08 1976 TO/A MAR 20 1978CALUMET RIVER NEAR FORT MACKAY - ON  
RIGHT BANK 16 AIR MILES NORTH OF FORT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COO	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	13(0)	13(0)	13(0)	13(0)	8(0)	13(0)	13(0)	1(1)	ECHANTILLONS(IND.)
LOW	4.75	31.5	32.	31.5	2.2	41.	.12	L0	MINIMUM
HIGH		295.	112.0	286.	13.6	355.	.35	L0	MAXIMUM
AVERAGE	12.33	62.2	61.0	59.4	8.3	129.	.21		MOYENNE
STD.DEV.	6.80	70.8	32.6	68.9	3.5	79.	.07		ECART-TYPE
PERCNT:10TH	4.9	34.5	34.	31.5		84.	.14		10 <sup>e</sup> PERCNT
25TH	7.2	35.5	37.5	35.0	6.5	93.	.16		25 <sup>e</sup>
MEDIAN 50TH	9.2	39.5	42.5	37.5	8.1	108.	.19		50 <sup>e</sup> MEDIANE
75TH	18.6	46.	100.0	44.	10.7	130.	.28		75 <sup>e</sup>
90TH	22.6	73.	108.	72.		219.	.31		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	13(0)	13(1)		1(1)	3(1)	11(8)	11(5)	13(4)	ECHANTILLONS(IND.)
LOW	1.1	L1.0		L.001	.002	L.001	L.1	L.02	MINIMUM
HIGH	2.7	6.0		L.001	L.01	.026	1.4	.42	MAXIMUM
AVERAGE	1.94	2.9*			.005*	.004*	.5*	.12*	MOYENNE
STD.DEV.	.51	1.6*			.005*	.007*	.4*	.14*	ECART-TYPE
PERCNT:10TH	1.3	1.0				L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	1.80	2.0				L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.8	2.5			.002	L.001	.5	.05	50 <sup>e</sup> MEDIANE
75TH	2.50	4.0				.002	.9	.18	75 <sup>e</sup>
90TH	2.60	5.0				.005	.9	.35	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		13(0)	13(1)	6(6)	13(12)		13(8)		ECHANTILLONS(IND.)
LOW		.04	L.01	L.01	L.001		L.003		MINIMUM
HIGH		.69	.21	L.05	.001		.012		MAXIMUM
AVERAGE		.26	.06*		.001*		.004*		MOYENNE
STD.DEV.		.19	.05*		.000*		.003*		ECART-TYPE
PERCNT:10TH		.11	.01		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.16	.03	L.01	L.001		L.001		25 <sup>e</sup>
MEDIAN 50TH		.20	.05	L.050	L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.26	.09	L.05	L.001		.003		75 <sup>e</sup>
90TH		.56	.11		L.001		.005		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives.

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0026** LAT. **57 D 24 M 12 S** LONG. **111 D 40 M 57 S**

UTM **12 459000E 6362270 N**  
NOV 08, 1976 TO/A MAR 20, 1978

CALUMET RIVER NEAR FORT MACKAY - ON  
RIGHT BANK 16 AIR MILES NORTH OF FORT

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(12)</b>	<b>13(9)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(3)</b>	<b>13(11)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	.020	.6	L.002	L.002	.001	.005	.0003	L.0002	MINIMUM
HIGH	4.85	21.0	.002	.020	.017	.096	.0062	.0005	MAXIMUM
AVERAGE	.837	3.27	.002*	.004*	.005	.019	.0013*	.0003*	MOYENNE
STD.DEV.	1.384	5.68	.000*	.005*	.005	.024	.0017*	.0001*	ECART-TYPE
PERCNT:10TH	.031	.61	L.002	L.002	.002	.006	.0004	L.0002	10 <sup>e</sup> PERCNT
25TH	.039	.76	L.002	L.002	.002	.007	L.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.075	.91	L.002	L.002	.004	.010	.0006	L.0002	50 <sup>e</sup> MEDIANE
75TH	1.65	2.90	L.002	.004	.006	.021	.001	L.0005	75 <sup>e</sup>
90TH	1.65	7.60	L.002	.008	.016	.026	.0039	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			<b>7(6)</b>		<b>13(13)</b>			<b>13(9)</b>	<b>ECHANTILLONS(IND.)</b>
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		L.001			.0046	MAXIMUM
AVERAGE			.00*					.0005*	MOYENNE
STD.DEV.			.00*					.0013*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0001	75 <sup>e</sup>
90TH					L.001			.0013	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>13(10)</b>	<b>13(0)</b>	<b>8(1)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>13(1)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	L.002	2.	0.	0.	90.	L0.	227.	168.	MINIMUM
HIGH	.014	8.	8.	49.	5800.	77.	1178.	983.	MAXIMUM
AVERAGE	.004*	3.	3.*	21.	2370.	12.*	481.	389.	MOYENNE
STD.DEV.	.004*	2.	3.*	22.	2258.	21.*	333.	294.	ECART-TYPE
PERCNT:10TH	L.002	2.				1.	240.	173.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	1.*	3.	735.	2.	252.	187.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	2.	9.	1600.	4.	297.	218.	50 <sup>e</sup> MEDIANE
75TH	L.002	2.	3.	46.	3700.	10.	654.	486.	75 <sup>e</sup>
90TH	.008	4.				32.	1095.	946.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0027 LAT. 57 D 24 M 38 S LONG. 111 D 39 M 57 S

UTM 12 460000E 6363070 N  
FEB 11 1976 TO/A NOV 19 1976

CALUMET RIVER NEAR THE MOUTH - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	6(0)	6(0)	6(3)	6(0)	5(0)	4(0)	6(0)		ECHANTILLONS(IND.)
LOW	342.	197.	Q118.8	110.	3.1	7.2	115.		MINIMUM
HIGH	979.	574.	313.9	200.	28.	8.1	393.		MAXIMUM
AVERAGE	575.	331.	205.2*	145.	11.2		242.5		MOYENNE
STD.DEV.	233.	138.	72.4*	32.	10.2		94.6		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	410.	241.	153.4	120.	3.3	7.4	188.0		25 <sup>e</sup>
MEDIAN 50TH	510.	283.	190.1	140.	8.7	7.7	232.5		50 <sup>e</sup> MEDIANE
75TH	700.	407.	Q265.1	160.	13.	7.9	294		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
SAMPLES(FLAGS)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	ECHANTILLONS(IND.)
LOW	1.9	34.	30.0	10.2	0.	140.	10.6	4.0	MINIMUM
HIGH	4.2	116.	79.4	28.1	0.	479.	67.0	43.0	MAXIMUM
AVERAGE	2.9	59.0	51.95	18.0	0.	296.	26.4	26.8	MOYENNE
STD.DEV.	.8	30.5	17.96	6.7	0.	115.	21.1	17.2	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	2.5	39.5	40.0	13.0	0.	229.	13.6	11.0	25 <sup>e</sup>
MEDIAN 50TH	2.8	47.4	48.25	16.7	0.	283.	20.0	30.3	50 <sup>e</sup> MEDIANE
75TH	3.2	70.	65.8	23.5	0.	358.	27.5	42.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L						CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L	
SAMPLES(FLAGS)	2(0)	1(1)		2(0)	4(0)	2(0)	2(0)		ECHANTILLONS(IND.)
LOW	.84	L.01		.04	.96	.05	.16		MINIMUM
HIGH	1.05	L.01		.38	1.7	.08	.16		MAXIMUM
AVERAGE	.945			.210	1.40	.065	.160		MOYENNE
STD.DEV.	.148			.240	.34	.021	.000		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					1.13				25 <sup>e</sup>
MEDIAN 50TH	.945			.210	1.47	.065	.160		50 <sup>e</sup> MEDIANE
75TH					1.67				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0027** LAT. **57 D 24 M 38 S** LONG. **111 D 39 M 57 S**UTM **12 460000E 6363070 N**  
FEB 11, 1976 TO/À NOV 19, 1976

CALUMET RIVER NEAR THE MOUTH - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	06101L CARBON DISSOLVED ORGANIC C	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	MG/L	MG/L	MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>4(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>6(0)</b>	<b>2(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>2.0</b>	<b>27.0</b>	<b>26.</b>	<b>27.0</b>	<b>7.8</b>	<b>64.</b>	<b>.11</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>16.0</b>	<b>66.</b>	<b>94.</b>	<b>65.</b>	<b>8.8</b>	<b>163.</b>	<b>.24</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>10.73</b>	<b>43.4</b>	<b>53.5</b>	<b>41.8</b>	<b>8.3</b>	<b>113.</b>	<b>.19</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>5.11</b>	<b>14.0</b>	<b>24.3</b>	<b>16.4</b>	<b>.7</b>	<b>70.</b>	<b>.06</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>9.2</b>	<b>34.5</b>	<b>35.0</b>	<b>31.0</b>			<b>.11</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>10.95</b>	<b>40.5</b>	<b>50.0</b>	<b>37.5</b>	<b>8.3</b>	<b>113.</b>	<b>.23</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>15.3</b>	<b>52.</b>	<b>66.</b>	<b>52.5</b>			<b>.23</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>2(0)</b>	<b>6(0)</b>	<b>4(0)</b>	<b>2(2)</b>	<b>2(2)</b>	<b>6(1)</b>	<b>3(1)</b>	<b>2(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.40</b>	<b>1.</b>	<b>38.</b>	<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.65</b>	<b>12.5</b>	<b>49.</b>	<b>L.001</b>	<b>L.02</b>	<b>.021</b>	<b>L1.0</b>	<b>L.02</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.03</b>	<b>6.5</b>	<b>42.3</b>			<b>.009*</b>	<b>.6*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.88</b>	<b>3.8</b>	<b>4.8</b>			<b>.008*</b>	<b>.5*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>4.0</b>	<b>39.0</b>			<b>.002</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.03</b>	<b>7.0</b>	<b>41.0</b>	<b>L.0010</b>	<b>L.015</b>	<b>.007</b>	<b>.8</b>	<b>L.02</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>7.5</b>	<b>45.5</b>			<b>.016</b>			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE						35L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>4(4)</b>	<b>2(0)</b>	<b>6(0)</b>			<b>6(4)</b>	<b>2(2)</b>	<b>4(4)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.005</b>	<b>.47</b>	<b>.03</b>			<b>L.001</b>	<b>L.003</b>	<b>L.015</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.005</b>	<b>.76</b>	<b>.49</b>			<b>.001</b>	<b>L.003</b>	<b>L.015</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.62</b>	<b>.11</b>			<b>.0010*</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.21</b>	<b>.19</b>			<b>.0000*</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.005</b>		<b>.03</b>			<b>L.001</b>		<b>L.015</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.005</b>	<b>.62</b>	<b>.03</b>			<b>L.0010</b>	<b>L.003</b>	<b>L.015</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.005</b>		<b>.06</b>			<b>.001</b>		<b>L.015</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE			02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

00AT07DA0027 LAT 57 D 24 M 38 S LONG 111 D 39 M 57 S

DTM 12 460000 6363070 N

FEB 11, 1976 TO/A NOV 19 1976

CALUMET RIVER NEAR THE MOUTH - AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED AS	34102L SELENIUM DISSOLVED SE	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	6(0)	6(0)	5(1)	5(2)	6(1)	6(0)	1(1)	2(2)	ECHANTILLONS(IND.)
LOW	.025	.67	L.002	L.002	L.001	.002	L.0005	L.0005	MINIMUM
HIGH	1.0	4.5	.008	.013	.008	.013	L.0005	L.0005	MAXIMUM
AVERAGE	.262	1.92	.005*	.007*	.005*	.007			MOYENNE
STD.DEV.	.381	1.46	.002*	.005*	.003*	.004			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.050	1.00	.004	L.002	.003	.002			25 <sup>e</sup>
MEDIAN 50TH	.074	1.27	.005	.004	.004	.008		L.0005	50 <sup>e</sup> MEDIANE
75TH	.35	2.8	.005	.012	.008	.009			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			01L	01L	05L 06L	04L	01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED CD	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL HG	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	MG/L	CD MG/L	SB MG/L	BA MG/L	MG/L	
SAMPLES(FLAGS)	4(0)	4(4)	3(3)	3(1)	6(3)	1(1)	4(2)	2(2)	ECHANTILLONS(IND.)
LOW	.17	L.10	L.00	L.001	L.001	L.0	L.1	L.0002	MINIMUM
HIGH	.37	L.10	L.01	.002	.002	L.0	.1	L.0002	MAXIMUM
AVERAGE	.26			.001*	.001*		.1*		MOYENNE
STD.DEV.	.09			.001*	.001*		.0*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.19	L.10			L.001		L.0		25 <sup>e</sup>
MEDIAN 50TH	.24	L.10	L.01	.001	.001*		.1*	L.0002	50 <sup>e</sup> MEDIANE
75TH	.33	L.10			.002		.1		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	BACT DENS NO./ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	5(1)	2(0)				6(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	L.004	2.				2.	251.	168.	MINIMUM
HIGH	.035	4.				62.	429.	313.	MAXIMUM
AVERAGE	.013*	3.				17.	332.	234.	MOYENNE
STD.DEV.	.013*	1.				23.	73.	60.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.004					5.	294.	182.	25 <sup>e</sup>
MEDIAN 50TH	.006	3.				7.	302.	244.	50 <sup>e</sup> MEDIANE
75TH	.018					16.	385.	265.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0028** LAT. **57 D 21 M 14 S** LONG. **111 D 45 M 29 S**

UTM **12 454390E 6356820 N**  
OCT 09, 1976 TO/A MAY 03, 1978

LOWER TAR RIVER - 13 AIR MILES NORTH-  
WEST OF FORT MACKAY

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	15(0)	15(0)	15(0)	14(0)	13(0)	7(0)	15(0)		ECHANTILLONS(IND.)
LOW	100.	74.	54.3	15.	1.5	7.5	45.9		MINIMUM
HIGH	710.	413.	313.0	200.	570.	8.3	392.0		MAXIMUM
AVERAGE	403.	234.	177.0	68.	91.8		193.5		MOYENNE
STD.DEV.	176.	105.	75.8	43.	157.8		101.4		ECART-TYPE
PERCNT:10TH	267.	146.	111.5	30.	3.5		108.0		10 <sup>e</sup> PERCNT
25TH	276.	158.	124.0	50.	6.5	7.6	124.4		25 <sup>e</sup>
MEDIAN 50TH	370.	208.	149.2	60.	23.5	8.0	156.0		50 <sup>e</sup> MEDIANE
75TH	580.	308.	237.2	75.	84.0	8.1	296.0		75 <sup>e</sup>
90TH	685.	413.	290.2	100.	189.		338.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	15(0)	15(0)	15(0)	15(0)	15(0)	15(0)	15(0)	15(0)	ECHANTILLONS(IND.)
LOW	1.1	4.4	14.0	4.7	0.	56.	.8	8.6	MINIMUM
HIGH	4.5	50.0	80.0	27.5	0.	478.	9.2	62.5	MAXIMUM
AVERAGE	2.2	23.7	46.10	15.0	0.	236.	3.6	27.3	MOYENNE
STD.DEV.	.9	13.9	19.58	6.6	0.	124.	2.4	14.3	ECART-TYPE
PERCNT:10TH	1.3	7.4	29.5	9.2	0.	132.	1.5	9.3	10 <sup>e</sup> PERCNT
25TH	1.7	14.5	32.0	10.7	0.	152.	1.7	16.3	25 <sup>e</sup>
MEDIAN 50TH	1.9	21.5	38.0	12.6	0.	190.	3.0	27.5	50 <sup>e</sup> MEDIANE
75TH	2.7	31.5	64.5	18.5	0.	361.	4.3	34.9	75 <sup>e</sup>
90TH	3.4	47.0	75.0	26.0	0.	412.	7.5	43.0	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE MG/L	07555L NITROGEN DISSOLVED AMMONIA MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	15(0)	15(5)	4(1)	15(2)		15(1)	15(0)		ECHANTILLONS(IND.)
LOW	.3	L.003	L.003	L.01		.009	.056		MINIMUM
HIGH	4.40	.100	.013	.80		.05	1.4		MAXIMUM
AVERAGE	1.698	.026*	.006*	.215*		.021*	.245		MOYENNE
STD.DEV.	1.287	.028*	.005*	.269*		.012*	.351		ECART-TYPE
PERCNT:10TH	.44	L.003		L.01		L.01	.063		10 <sup>e</sup> PERCNT
25TH	.63	L.01	.003*	.02		.01	.079		25 <sup>e</sup>
MEDIAN 50TH	1.13	.014	.005	.10		.019	.12		50 <sup>e</sup> MEDIANE
75TH	2.25	.040	.010	.33		.03	.18		75 <sup>e</sup>
90TH	4.17	.071		.66		.04	.52		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0028 LAT. 57 D 21M 14 S LONG. 111 D 45M 29 S

UTM 12 454390E 6356820 N  
OCT 09 1976 TO: A MAY 03 1978LOWER TAR RIVER - 13 AIR MILES NORTH-  
WEST OF FORT MACKAY

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	15(0)	15(0)	15(0)	15(0)	7(0)	15(0)	15(0)	2(2)	ECHANTILLONS(IND.)
LOW	3.8	10.0	8.5	9.0	.3	24.	.08	L.0	MINIMUM
HIGH	18.8	43.5	65.	32.0	12.4	151.	.38	L.0	MAXIMUM
AVERAGE	10.35	21.2	36.9	17.9	8.0	78.	.21		MOYENNE
STD.DEV.	4.70	8.5	17.7	6.6	3.9	41.	.08		ECART-TYPE
PERCNT:10TH	5.0	11.0	19.	10.5		32.	.10		10 <sup>e</sup> PERCNT
25TH	6.5	15.	25.	13.5	7.0	39.	.18		25 <sup>e</sup>
MEDIAN 50TH	8.7	20.	33.0	16.	9.7	73.	.18	L.0	50 <sup>e</sup> MEDIANE
75TH	15.1	25.	51.5	24.5	10.0	118.	.26		75 <sup>e</sup>
90TH	17.2	30.	65.	26.		145.	.36		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	15(0)	15(8)		2(2)	5(4)	13(6)	13(6)	15(7)	ECHANTILLONS(IND.)
LOW	.45	L.1.0		L.001	.001	L.001	L.1	L.02	MINIMUM
HIGH	2.4	5.0		L.001	L.01	.024	1.6	.27	MAXIMUM
AVERAGE	1.13	1.7*			.007*	.006*	.4*	.08*	MOYENNE
STD.DEV.	.55	1.3*			.005*	.008*	.5*	.09*	ECART-TYPE
PERCNT:10TH	.6	L1.0				L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	.70	L1.0			L.002	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.0	L1.0		L.0010	L.01	.001	.1	.02	50 <sup>e</sup> MEDIANE
75TH	1.30	2.0			L.01	.012	.7	.12	75 <sup>e</sup>
90TH	2.10	4.0				.018	1.0	.22	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXA VALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		15(0)	15(0)	6(6)	14(9)	1(1)	15(11)		ECHANTILLONS(IND.)
LOW		.07	.02	L.01	L.001	L.001	L.003		MINIMUM
HIGH		.31	10.8	L.05	.007	L.001	.023		MAXIMUM
AVERAGE		.16	1.02		.002*		.005*		MOYENNE
STD.DEV.		.06	2.74		.002*		.005*		ECART-TYPE
PERCNT:10TH		.08	.05		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.12	.07	L.01	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.17	.12	L.050	L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.20	.75	L.05	.002		.004		75 <sup>e</sup>
90TH		.22	1.39		.004		.009		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0028** LAT. **57 D 21M 14 S** LONG. **111 D 45M 29 S**UTM **12 454390 E 6356820 N**  
OCT 09, 1976 TO/A MAY 03, 1978LOWER TAR RIVER - 13 AIR MILES NORTH-  
WEST OF FORT MACKAY

SUBM ID	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	ECHANTILLONS(IND.)
	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	15(0)	15(0)	15(11)	15(8)	15(0)	15(1)	14(3)	14(8)	
LOW	.002	1.20	L.002	L.002	.002	L.001	L.0002	L.0002	MINIMUM
HIGH	6.40	52.5	.008	.026	.114	.041	.0173	.0009	MAXIMUM
AVERAGE	1.153	8.49	.003*	.007*	.016	.015*	.0027*	.0004*	MOYENNE
STD.DEV.	2.018	13.48	.002*	.008*	.028	.011*	.0046*	.0002*	ECART-TYPE
PERCNT:10TH	.032	1.45	L.002	L.002	.003	.004	.0004	L.0002	10 <sup>e</sup> PERCNT
25TH	.052	1.70	L.002	L.002	.003	.006	.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.125	2.50	L.002	L.002	.008	.012	.0008	L.0005	50 <sup>e</sup> MEDIANE
75TH	.870	9.00	.002	.009	.014	.020	.002	.0005	75 <sup>e</sup>
90TH	4.70	19.9	.006	.022	.030	.029	.007	.0008	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

SUBM ID	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	ECHANTILLONS(IND.)
	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			9(7)		15(14)			15(14)	
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			.01		.001			.0003	MAXIMUM
AVERAGE			.00*		.001*			.0001*	MOYENNE
STD.DEV.			.00*		.000*			.0001*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH					L.001			L.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

SUBM ID	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	ECHANTILLONS(IND.)
	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	15(10)	15(0)	6(1)	6(0)	6(0)	15(0)	15(0)	14(0)	
LOW	L.002	2.	0.	0.	400.	4.	78.	126.	MINIMUM
HIGH	.038	8.	8.	34.	4200.	986.	508.	438.	MAXIMUM
AVERAGE	.005*	3.	3.*	16.	1632.	127.	259.	229.	MOYENNE
STD.DEV.	.009*	2.	3.*	17.	1559.	258.	129.	102.	ECART-TYPE
PERCNT:10TH	L.002	2.				6.	162.	134.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	0.	560.	8.	171.	150.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	2.*	16.	865.	16.	198.	181.	50 <sup>e</sup> MEDIANE
75TH	.002	2.	5.	33.	2900.	134.	366.	308.	75 <sup>e</sup>
90TH	.010	4.				305.	490.	375.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

00AT07DA0029

LAT 57° 16' 27"

LONG 111° 44' 30"

UTM 12 455290 6347930

OCT 09. 1976 TO/A APR 17. 1979

JOSLYN CREEK - 2 MILES ABOVE  
CONFLUENCE WITH ELLS RIVER - AT WSC

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM			REL. UNITS	JTU	PH-UNITS			PH-UNITS
SAMPLES(FLAGS)	22(0)	22(0)	22(0)	11(0)	20(0)	15(0)	22(0)		ECHANTILLONS(IND.)
LOW	225.	179.	117.0	30.	.9	7.2	86.8		MINIMUM
HIGH	800.	507.	335.9	110.	216.	8.6	356.0		MAXIMUM
AVERAGE	493.	315.	207.8	69.	59.6		193.1		MOYENNE
STD.DEV.	165.	107.	66.8	23.	55.7		79.7		ECART-TYPE
PERCNT:10TH	332.	186.	134.8	50.	11.2	7.3	102.5		10 <sup>e</sup> PERCNT
25TH	390.	246.	148.0	50.	22.0	7.8	133.1		25 <sup>e</sup>
MEDIAN 50TH	444.	289.	196.6	60.	46.0	8.0	171.8		50 <sup>e</sup> MEDIANE
75TH	690.	428.	271.9	85.	77.5	8.4	250.6		75 <sup>e</sup>
90TH	700.	470.	300.2	90.	149.5	8.5	320.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	22(0)	22(0)	22(0)	22(0)	22(10)	22(10)	22(0)	22(0)	ECHANTILLONS(IND.)
LOW	1.3	17.5	32.50	8.7	0.	Q106.	1.5	52.5	MINIMUM
HIGH	3.8	78.0	90.0	27.0	30.	434.	47.5	170.0	MAXIMUM
AVERAGE	2.7	36.9	55.98	16.5	1.*	233.*	7.2	79.6	MOYENNE
STD.DEV.	.7	16.7	17.05	5.9	6.*	94.*	12.9	28.7	ECART-TYPE
PERCNT:10TH	1.8	19.1	37.50	10.0	0.	125.	1.7	53.5	10 <sup>e</sup> PERCNT
25TH	2.2	26.5	40.0	12.0	0.	162.	1.8	63.7	25 <sup>e</sup>
MEDIAN 50TH	2.7	32.0	54.50	14.7	0.	209.	3.0	70.0	50 <sup>e</sup> MEDIANE
75TH	3.3	47.0	71.80	23.0	Q0.	Q305.	5.0	84.5	75 <sup>e</sup>
90TH	3.5	57.5	79.0	25.0	Q0.	390.	7.1	120.0	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
SAMPLES(FLAGS)	22(0)	22(2)	10(1)	21(2)		22(1)	22(0)		ECHANTILLONS(IND.)
LOW	.54	L.003	L.003	L.002		L.003	.055		MINIMUM
HIGH	3.88	.340	.016	.36		.110	.720		MAXIMUM
AVERAGE	1.452	.080*	.008*	.081*		.024*	.170		MOYENNE
STD.DEV.	.798	.099*	.005*	.089*		.028*	.139		ECART-TYPE
PERCNT:10TH	.63	.007	.003*	.02		.008	.078		10 <sup>e</sup> PERCNT
25TH	.90	.009	.003	.037		.012	.093		25 <sup>e</sup>
MEDIAN 50TH	1.360	.038	.008	.04		.015	.145		50 <sup>e</sup> MEDIANE
75TH	1.90	.115	.010	.085		.021	.175		75 <sup>e</sup>
90TH	2.20	.200	.016	.17		.04	.24		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0029** LAT. **57 D 16M 27 S** LONG. **111 D 44M 30 S**UTM **12 455290 E 6347930 N**  
OCT 09, 1976 TO/A APR 17, 1979JOSLYN CREEK - 2 MILES ABOVE  
CONFLUENCE WITH ELLS RIVER - AT WSC

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>22(0)</b>	<b>22(0)</b>	<b>22(0)</b>	<b>22(0)</b>	<b>13(0)</b>	<b>22(0)</b>	<b>22(0)</b>	<b>3(3)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>5.40</b>	<b>7.5</b>	<b>13.</b>	<b>6.0</b>	<b>2.5</b>	<b>44.</b>	<b>.10</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>14.50</b>	<b>55.5</b>	<b>80.5</b>	<b>53.0</b>	<b>13.0</b>	<b>133.</b>	<b>.34</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>8.91</b>	<b>24.6</b>	<b>38.6</b>	<b>22.2</b>	<b>8.8</b>	<b>74.</b>	<b>.26</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>3.33</b>	<b>9.7</b>	<b>20.9</b>	<b>9.5</b>	<b>2.7</b>	<b>25.</b>	<b>.07</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>5.6</b>	<b>16.5</b>	<b>17.5</b>	<b>15.0</b>	<b>5.9</b>	<b>52.</b>	<b>.17</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>6.0</b>	<b>19.0</b>	<b>22.</b>	<b>16.5</b>	<b>7.5</b>	<b>55.</b>	<b>.22</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>7.65</b>	<b>22.8</b>	<b>33.0</b>	<b>20.0</b>	<b>8.9</b>	<b>66.</b>	<b>.26</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>12.30</b>	<b>27.5</b>	<b>53.0</b>	<b>25.5</b>	<b>10.2</b>	<b>82.</b>	<b>.33</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>13.70</b>	<b>33.</b>	<b>74.5</b>	<b>30.</b>	<b>12.0</b>	<b>110.</b>	<b>.34</b>		<b>90<sup>e</sup></b>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>22(0)</b>	<b>22(11)</b>	<b>11(0)</b>	<b>3(2)</b>	<b>4(4)</b>	<b>20(16)</b>	<b>20(4)</b>	<b>22(4)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.2</b>	<b>L.0</b>	<b>3.</b>	<b>.000</b>	<b>L.002</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.15</b>	<b>6.</b>	<b>36.</b>	<b>L.001</b>	<b>L.01</b>	<b>.023</b>	<b>1.5</b>	<b>.50</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.28</b>	<b>1.5*</b>	<b>18.4</b>	<b>.0007*</b>		<b>.002*</b>	<b>.7*</b>	<b>.19*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.50</b>	<b>1.2*</b>	<b>9.7</b>	<b>.0006*</b>		<b>.005*</b>	<b>.5*</b>	<b>.14*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.60</b>	<b>L.1.0</b>	<b>9.</b>			<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.0</b>	<b>L.0</b>	<b>12.</b>		<b>L.002</b>	<b>L.001</b>	<b>.2</b>	<b>.05</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.35</b>	<b>1.0*</b>	<b>18.</b>	<b>L.001</b>	<b>L.006</b>	<b>L.001</b>	<b>.7</b>	<b>.20</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.65</b>	<b>1.5</b>	<b>26.</b>		<b>L.010</b>	<b>L.001</b>	<b>1.0</b>	<b>.26</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.0</b>	<b>2.</b>	<b>29.</b>			<b>.005</b>	<b>1.2</b>	<b>.36</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXA VALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		<b>22(0)</b>	<b>22(0)</b>	<b>6(5)</b>	<b>21(10)</b>	<b>1(0)</b>	<b>22(11)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.11</b>	<b>.05</b>	<b>L.01</b>	<b>L.001</b>	<b>.002</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.35</b>	<b>6.20</b>	<b>.33</b>	<b>.013</b>	<b>.002</b>	<b>.032</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.23</b>	<b>1.06</b>	<b>.090*</b>	<b>.002*</b>		<b>.006*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.06</b>	<b>1.69</b>	<b>.119*</b>	<b>.003*</b>		<b>.007*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.16</b>	<b>.11</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.20</b>	<b>.20</b>	<b>L.05</b>	<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.23</b>	<b>.33</b>	<b>L.050</b>	<b>.001</b>		<b>.003*</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.27</b>	<b>.92</b>	<b>L.05</b>	<b>.002</b>		<b>.006</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.28</b>	<b>3.60</b>		<b>.004</b>		<b>.011</b>		<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960.79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0029 LAT. 57 D 16M 27 S LONG. 111 D 44M 30 S

UTM 12 455290E 6347930N

OCT 09 1976 TO/A APR 17 1979

JOSLYN CREEK - 2 MILES ABOVE  
CONFLUENCE WITH ELLS RIVER - AT WSC

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	22(0)	22(0)	11(7)	22(2)	22(0)	22(1)	21(3)	21(9)	ECHANTILLONS(IND.)
LOW	.026	1.18	L.002	L.002	.001	L.001	L.0002	L.0002	MINIMUM
HIGH	.530	14.0	.008	.020	.019	.039	.0083	.0013	MAXIMUM
AVERAGE	.156	4.68	.003*	.007*	.006	.016*	.0020*	.0004*	MOYENNE
STD.DEV.	.169	2.68	.002*	.005*	.005	.010*	.0019*	.0003*	ECART-TYPE
PERCNT:10TH	.037	2.00	L.002	.002	.002	.006	.0005	L.0002	10 <sup>e</sup> PERCNT
25TH	.054	3.00	L.002	.004	.003	.008	L.001	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.091	4.32	L.002	.007	.005	.014	.0012	.0004	50 <sup>e</sup> MEDIANE
75TH	.140	6.00	.002	.009	.008	.021	.0024	.0005	75 <sup>e</sup>
90TH	.525	6.85	.002	.010	.011	.030	.0042	.0007	90 <sup>e</sup>
SECONDARY CODE					06L 05L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			5(4)		11(9)			22(22)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.003			L.0002	MAXIMUM
AVERAGE			.00*		.001*				MOYENNE
STD.DEV.			.00*		.001*				ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH					.002			L.0001	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	22(10)	22(0)	13(0)	13(0)	14(1)	22(1)	22(0)	22(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	70.	L.0.	182.	115.	MINIMUM
HIGH	.011	4.	33.	79.	30000.	172.	528.	409.	MAXIMUM
AVERAGE	.004*	3.	5.	22.	6363.*	48.*	322.	249.	MOYENNE
STD.DEV.	.003*	1.	9.	31.	9577.*	48.*	107.	72.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	0.	200.	8.	207.	171.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	0.	500.	14.	243.	203.	25 <sup>e</sup>
MEDIAN 50TH	.002	2.	2.	5.	1350.	25.	286.	239.	50 <sup>e</sup> MEDIANE
75TH	.005	4.	5.	33.	7700.	68.	450.	283.	75 <sup>e</sup>
90TH	.008	4.	13.	79.	25000.	114.	462.	349.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0030** LAT. **57 D 16 M 4 S** LONG. **111 D 42 M 51 S**UTM **12 456930E 6347210 N**  
OCT 09, 1976 TO/A MAY 03, 1978LOWER ELLS RIVER - 2 MILES ABOVE  
CONFLUENCE WITH JOSLYN CREEK - AT WSC

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	18(0)	17(0)	18(0)	18(0)	16(0)	11(0)	18(0)	1(0)	ECHANTILLONS(IND.)
LOW	110.	76.	58.5	20.	1.1	7.4	53.6	-.8	MINIMUM
HIGH	370.	203.	140.2	140.	279.	8.5	150.4	-.8	MAXIMUM
AVERAGE	211.	119.	92.5	39.	23.7		93.4		MOYENNE
STD.DEV.	64.	31.	20.5	26.	68.6		23.2		ECART-TYPE
PERCNT:10TH	133.	80.	66.3	25.	1.4	7.6	61.8		10 <sup>e</sup> PERCNT
25TH	173.	97.	76.7	30.	2.0	7.6	78.3		25 <sup>e</sup>
MEDIAN 50TH	194.	114.	89.6	33.	3.3	8.1	91.8		50 <sup>e</sup> MEDIANE
75TH	240.	135.	107.8	35.	9.8	8.2	107.0		75 <sup>e</sup>
90TH	300.	155.	116.1	50.	29.0	8.3	122.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	18(0)	17(0)	18(0)	18(0)	18(0)	18(0)	18(0)	18(0)	ECHANTILLONS(IND.)
LOW	.8	5.0	15.2	5.0	0.	65.	.6	9.3	MINIMUM
HIGH	2.2	26.0	38.0	11.0	0.	183.	5.4	30.2	MAXIMUM
AVERAGE	1.3	12.0	24.73	7.5	0.	114.	2.2	16.7	MOYENNE
STD.DEV.	.4	4.9	5.81	1.5	0.	28.	1.1	5.3	ECART-TYPE
PERCNT:10TH	.9	7.5	17.5	5.5	0.	75.	1.0	9.7	10 <sup>e</sup> PERCNT
25TH	1.1	8.4	20.5	6.2	0.	95.	1.7	13.5	25 <sup>e</sup>
MEDIAN 50TH	1.3	11.5	23.50	7.4	0.	112.	2.0	16.0	50 <sup>e</sup> MEDIANE
75TH	1.5	13.0	29.0	8.3	0.	130.	2.6	20.5	75 <sup>e</sup>
90TH	2.0	18.0	31.5	9.2	0.	149.	3.7	23.0	90 <sup>e</sup>
SECONDARY CODE	02L 03L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SAMPLES(FLAGS)	18(0)	18(2)	6(2)	18(4)		18(6)	18(0)		ECHANTILLONS(IND.)
LOW	.20	.003	L.003	L.01		L.003	.009		MINIMUM
HIGH	2.17	.43	.009	.14		.06	.34		MAXIMUM
AVERAGE	.871	.132*	.005*	.048*		.012*	.054		MOYENNE
STD.DEV.	.389	.141*	.002*	.043*		.014*	.075		ECART-TYPE
PERCNT:10TH	.63	.003		L.01		L.003	.015		10 <sup>e</sup> PERCNT
25TH	.68	L.01	L.003	.01		L.003	.020		25 <sup>e</sup>
MEDIAN 50TH	.800	.093	.004	.035		.008*	.032		50 <sup>e</sup> MEDIANE
75TH	.98	.260	.005	.07		.017	.05		75 <sup>e</sup>
90TH	1.11	.37		.12		.03	.09		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0030 LAT. 57 D 16 M 4 S LONG. 111 D 42 M 51 S

UTM 12 456930E 6347210 N  
OCT 09. 1976 TO: A MAY 03 1978LOWER ELLS RIVER - 2 MILES ABOVE  
CONFLUENCE WITH JOSLYN CREEK - AT WSC

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	18(0)	18(0)	18(0)	18(0)	10(0)	18(0)	18(0)	3(3)	ECHANTILLONS(IND.)
LOW	.35	7.5	7.5	7.5	2.6	14.	.08	L.0	MINIMUM
HIGH	9.9	41.5	25.	32.0	14.4	108.	.16	L.0	MAXIMUM
AVERAGE	3.97	15.3	18.0	13.5	10.4	42.	.12		MOYENNE
STD.DEV.	3.41	7.9	5.2	6.0	3.6	26.	.03		ECART-TYPE
PERCNT:10TH	.5	7.5	9.0	7.5	4.7	17.	.08		10 <sup>e</sup> PERCNT
25TH	1.2	11.0	14.	8.0	8.7	21.	.09		25 <sup>e</sup>
MEDIAN 50TH	3.10	13.3	19.0	11.8	10.9	38.	.12	L.0	50 <sup>e</sup> MEDIANE
75TH	6.2	18.0	21.5	17.0	13.4	48.	.13		75 <sup>e</sup>
90TH	9.7	21.5	24.0	18.	14.3	93.	.15		90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO- PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	18(0)	18(15)		3(3)	7(7)	14(11)	14(5)	18(6)	ECHANTILLONS(IND.)
LOW	.4	L1.0		L.001	L.001	L.001	L.1	L.02	MINIMUM
HIGH	1.9	2.0		L.001	L.01	.024	8.2	.23	MAXIMUM
AVERAGE	.71	1.1*				.003*	.9*	.09*	MOYENNE
STD.DEV.	.38	.3*				.006*	2.1*	.08*	ECART-TYPE
PERCNT:10TH	.4	L1.0				L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	.5	L1.0			L.001	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.50	L1.0		L.001	L.002	L.001	.5	.08	50 <sup>e</sup> MEDIANE
75TH	.8	L1.0			L.01	L.001	.6	.16	75 <sup>e</sup>
90TH	1.20	2.0				.007	1.1	.21	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		18(0)	18(0)	9(9)	17(14)	1(1)	18(15)		ECHANTILLONS(IND.)
LOW		.05	.02	L.01	L.001	L.001	L.003		MINIMUM
HIGH		.30	14.7	L.05	.005	L.001	.017		MAXIMUM
AVERAGE		.14	.96		.001*		.004*		MOYENNE
STD.DEV.		.08	3.43		.001*		.003*		ECART-TYPE
PERCNT:10TH		.06	.03		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.08	.07	L.01	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.13	.09	L.05	L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.18	.16	L.05	L.001		L.003		75 <sup>e</sup>
90TH		.29	.88		.003		.005		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0030** LAT. **57 D 16 M 4 S** LONG. **111 D 42 M 51 S**

UTM **12 456930E 6347210 N**  
OCT 09, 1976 TO/A MAY 03, 1978

LOWER ELLS RIVER - 2 MILES ABOVE  
CONFLUENCE WITH JOSLYN CREEK - AT WSC

	25304L MANGANESE EXTRBLE. MN MG/L	26304L IRON EXTRBLE. FE MG/L	27302L COBALT EXTRBLE. CO MG/L	28302L NICKEL EXTRBLE. NI MG/L	29301L COPPER EXTRBLE. CU MG/L	30305L ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	18(0)	18(0)	18(16)	18(15)	18(3)	18(0)	17(7)	17(15)	ECHANTILLONS(IND.)
LOW	.010	.26	L.001	L.001	L.001	.001	L.0002	L.0002	MINIMUM
HIGH	.221	7.50	.004	.009	.033	.054	.009	.0005	MAXIMUM
AVERAGE	.033	.96	.002*	.003*	.006*	.013	.0014*	.0003*	MOYENNE
STD.DEV.	.049	1.65	.001*	.002*	.008*	.011	.0024*	.0001*	ECART-TYPE
PERCNT:10TH	.011	.28	L.001	L.002	L.001	.003	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.013	.39	L.002	L.002	.002	.008	.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.020	.51	L.002	L.002	.003	.011	.0005	L.0002	50 <sup>e</sup> MEDIANE
75TH	.029	.89	L.002	L.002	.008	.016	L.001	L.0005	75 <sup>e</sup>
90TH	.057	.97	.003	.007	.017	.020	.0055	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			9(7)		18(17)			18(16)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			.01		.003			.0003	MAXIMUM
AVERAGE			.00*		.001*			.0001*	MOYENNE
STD.DEV.			.00*		.000*			.0001*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH					L.001			.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTRABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	18(11)	18(0)	9(1)	9(0)	9(0)	18(0)	18(0)	17(0)	ECHANTILLONS(IND.)
LOW	L.002	1.	0.	0.	100.	2.	80.	57.	MINIMUM
HIGH	.012	8.	13.	13.	10000.	370.	235.	179.	MAXIMUM
AVERAGE	.003*	3.	3.*	5.	2142.	28.	135.	110.	MOYENNE
STD.DEV.	.003*	2.	4.*	5.	3221.	86.	39.	34.	ECART-TYPE
PERCNT:10TH	L.002	2.				2.	84.	74.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	2.	260.	3.	109.	85.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	L2.	4.	620.	5.	126.	101.	50 <sup>e</sup> MEDIANE
75TH	.004	2.	2.	5.	3100.	9.	151.	129.	75 <sup>e</sup>
90TH	.008	4.				39.	192.	169.	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0031 LAT. 56 D 56 M 29 S LONG. 111 D 33 M 54 S

UTM 12 465630E 6310790 N

SEP 07 1976 TO A MAY 03 1978

BEAVER RIVER ABOVE SYNCRUDE - .25 MILE  
BELOW CONFLUENCE WITH CACHE CREEK - AT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00219L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE CM	MG/L	MG/L						
SAMPLES(FLAGS)	18(0)	18(0)	18(0)	18(0)	16(0)	10(0)	18(0)		ECHANTILLONS(IND.)
LOW	135.	80.	29.8	15.	3.2	7.6	49.4		MINIMUM
HIGH	810.	506.	163.3	170.	1800.	8.5	434.0		MAXIMUM
AVERAGE	377.	233.	102.8	94.	128.9		197.6		MOYENNE
STD.DEV.	227.	147.	37.0	46.	446.1		123.8		ECART-TYPE
PERCNT:10TH	136.	87.	47.3	15.	3.9	7.7	63.8		10 <sup>e</sup> PERCNT
25TH	210.	122.	76.3	75.	5.0	7.8	103.4		25 <sup>e</sup>
MEDIAN 50TH	317.	188.	110.9	110.	7.1	8.0	167.4		50 <sup>e</sup> MEDIANE
75TH	550.	359.	130.1	110.	34.1	8.2	310.		75 <sup>e</sup>
90TH	770.	500.	147.1	150.	70.	8.3	422.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	18(0)	18(0)	18(0)	18(0)	17(0)	17(0)	18(0)	18(0)	ECHANTILLONS(IND.)
LOW	.7	13.5	7.3	2.8	0.	60.	.8	3.7	MINIMUM
HIGH	12.5	150.0	40.0	15.4	0.	529.	5.3	48.4	MAXIMUM
AVERAGE	2.4	56.3	25.39	9.6	0.	233.	2.2	18.8	MOYENNE
STD.DEV.	2.6	48.0	8.65	3.8	0.	151.	1.2	14.1	ECART-TYPE
PERCNT:10TH	1.0	16.5	12.0	4.2	0.	78.	1.0	6.6	10 <sup>e</sup> PERCNT
25TH	1.1	19.5	19.5	6.7	0.	126.	1.4	9.7	25 <sup>e</sup>
MEDIAN 50TH	1.8	37.3	27.75	10.1	0.	183.	1.8	12.4	50 <sup>e</sup> MEDIANE
75TH	2.2	97.	31.0	13.5	0.	258.	2.8	24.5	75 <sup>e</sup>
90TH	3.2	145.0	34.5	14.8	0.	514.	3.8	42.0	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 + NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	18(0)	18(4)	6(1)	18(1)		18(1)	18(0)		ECHANTILLONS(IND.)
LOW	.3	L.003	L.003	L.01		L.01	.040		MINIMUM
HIGH	3.20	.566	.012	.25		.235	.49		MAXIMUM
AVERAGE	1.303	.112*	.007*	.058*		.033*	.160		MOYENNE
STD.DEV.	.795	.153*	.004*	.053*		.051*	.120		ECART-TYPE
PERCNT:10TH	.53	L.003		.01		.01	.051		10 <sup>e</sup> PERCNT
25TH	.85	L.01	.003	.03		.014	.088		25 <sup>e</sup>
MEDIAN 50TH	1.150	.035	.007	.050		.020	.120		50 <sup>e</sup> MEDIANE
75TH	1.34	.185	.009	.06		.025	.19		75 <sup>e</sup>
90TH	3.05	.31		.09		.04	.38		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values./Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0031** LAT. **56 D 56M 29 S** LONG. **111 D 33M 54 S**UTM **12 465630E 6310790 N**  
SEP 07, 1976 TO/À MAY 03, 1978BEAVER RIVER ABOVE SYNCRUDE - .25 MILE  
BELOW CONFLUENCE WITH CACHE CREEK - AT

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>17(0)</b>	<b>17(0)</b>	<b>16(0)</b>	<b>9(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>4(4)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.7</b>	<b>7.5</b>	<b>11.0</b>	<b>7.0</b>	<b>4.8</b>	<b>10.</b>	<b>.07</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>13.6</b>	<b>147.</b>	<b>104.5</b>	<b>34.</b>	<b>11.4</b>	<b>125.</b>	<b>.29</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>7.84</b>	<b>27.0</b>	<b>40.9</b>	<b>17.6</b>	<b>8.8</b>	<b>62.</b>	<b>.14</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>3.33</b>	<b>31.9</b>	<b>28.7</b>	<b>7.3</b>	<b>2.2</b>	<b>30.</b>	<b>.07</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>4.4</b>	<b>10.0</b>	<b>12.</b>	<b>9.5</b>		<b>20.</b>	<b>.07</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>5.3</b>	<b>13.</b>	<b>19.</b>	<b>11.0</b>	<b>7.6</b>	<b>40.</b>	<b>.08</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>7.70</b>	<b>21.0</b>	<b>29.5</b>	<b>18.5</b>	<b>8.6</b>	<b>56.</b>	<b>.13</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>10.8</b>	<b>24.</b>	<b>46.0</b>	<b>23.0</b>	<b>10.6</b>	<b>81.</b>	<b>.18</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>12.6</b>	<b>37.</b>	<b>94.5</b>	<b>25.0</b>		<b>115.</b>	<b>.27</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>17(0)</b>	<b>18(6)</b>		<b>3(2)</b>	<b>8(6)</b>	<b>14(8)</b>	<b>14(5)</b>	<b>18(8)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.4</b>	<b>L.1.0</b>		<b>L.001</b>	<b>.001</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.60</b>	<b>12.5</b>		<b>.003</b>	<b>.290</b>	<b>.023</b>	<b>2.2</b>	<b>.22</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.41</b>	<b>2.6*</b>		<b>.0017*</b>	<b>.042*</b>	<b>.005*</b>	<b>.6*</b>	<b>.09*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.63</b>	<b>3.0*</b>		<b>.0012*</b>	<b>.100*</b>	<b>.008*</b>	<b>.7*</b>	<b>.07*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.50</b>	<b>L.1.0</b>				<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.8</b>	<b>L.1.0</b>			<b>L.002</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.6</b>	<b>1.3</b>		<b>L.001</b>	<b>L.010</b>	<b>L.001</b>	<b>.3</b>	<b>.08</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.85</b>	<b>2.0</b>			<b>L.010</b>	<b>.002</b>	<b>1.0</b>	<b>.14</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.00</b>	<b>7.5</b>				<b>.023</b>	<b>1.9</b>	<b>.20</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINIUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>		<b>18(0)</b>	<b>18(1)</b>	<b>8(8)</b>	<b>16(11)</b>	<b>2(2)</b>	<b>18(14)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.14</b>	<b>L.01</b>	<b>L.01</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>1.08</b>	<b>1.70</b>	<b>L.05</b>	<b>.022</b>	<b>L.001</b>	<b>.010</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.43</b>	<b>.33*</b>		<b>.003*</b>		<b>.004*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.29</b>	<b>.46*</b>		<b>.006*</b>		<b>.002*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.14</b>	<b>.05</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.22</b>	<b>.09</b>	<b>L.010</b>	<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.33</b>	<b>.11</b>	<b>L.050</b>	<b>L.001</b>	<b>L.0010</b>	<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.58</b>	<b>.32</b>	<b>L.050</b>	<b>.002</b>		<b>L.003</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.93</b>	<b>1.25</b>		<b>.014</b>		<b>.007</b>		<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960.79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0031 LAT 56° 56' 29" LONG 111° 33' 54"

UTM 12 4656301 6310790

SEP 07 1976 TO/A MAY 03 1978

BEAVER RIVER ABOVE SYNCRUDE - .25 MILE  
BELOW CONFLUENCE WITH CACHE CREEK - AT

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	18(0)	18(0)	18(15)	18(13)	17(0)	18(0)	16(6)	16(15)	ECHANTILLONS(IND.)
LOW	.025	.04	L.001	L.001	.002	.004	L.0002	L.0002	MINIMUM
HIGH	.39	16.0	.008	.012	.027	.045	.003	.0008	MAXIMUM
AVERAGE	.088	2.74	.002*	.003*	.006	.014	.0008*	.0003*	MOYENNE
STD.DEV.	.092	3.54	.002*	.003*	.006	.011	.0007*	.0002*	ECART-TYPE
PERCNT:10TH	.025	.41	L.001	.001	.002	.005	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.030	1.40	L.002	L.002	.003	.007	.0004	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.053	1.72	L.002	L.002	.004	.011	.0006	L.0002	50 <sup>e</sup> MEDIANE
75TH	.139	2.75	L.002	L.002	.005	.016	.0009*	L.0005	75 <sup>e</sup>
90TH	.19	5.90	.004	.006	.014	.042	.0016	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			9(9)		18(17)			18(15)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.006			.0009	MAXIMUM
AVERAGE					.001*			.0002*	MOYENNE
STD.DEV.					.001*			.0002*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH					L.001			.0007	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG. C. BACT. DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO-ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	18(15)	18(0)	7(0)	7(0)	5(0)	18(0)	18(0)	17(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	2.	8.	280.	2.	88.	69.	MINIMUM
HIGH	.014	8.	23.	110.	46000.	1364.	538.	519.	MAXIMUM
AVERAGE	.003*	3.	12.	49.	14536.	97.	246.	220.	MOYENNE
STD.DEV.	.003*	2.	9.	48.	20239.	318.	158.	159.	ECART-TYPE
PERCNT:10TH	L.002	2.				2.	89.	73.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	5.	11.	1100.	6.	127.	100.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	11.	13.	1300.	8.	184.	163.	50 <sup>e</sup> MEDIANE
75TH	L.002	2.	23.	110.	24000.	42.	375.	318.	75 <sup>e</sup>
90TH	.004	4.				122.	530.	502.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0032** LAT. **57 D 6 M 54 S** LONG. **111 D 37 M 22 S**UTM **12 462300E 6330140 N**  
AUG 11, 1976 TO/A OCT 25, 1978

BEAVER RIVER AT HWY 63 - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	21(0)	21(0)	21(0)	16(1)	18(0)	13(0)	21(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>420.</b>	<b>247.</b>	<b>175.4</b>	<b>L5.</b>	<b>1.7</b>	<b>6.9</b>	<b>162.0</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>2100.</b>	<b>1355.</b>	<b>391.7</b>	<b>70.</b>	<b>41.</b>	<b>8.6</b>	<b>328.0</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>710.</b>	<b>434.</b>	<b>241.8</b>	<b>34.*</b>	<b>13.2</b>		<b>217.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>441.</b>	<b>262.</b>	<b>49.3</b>	<b>17.*</b>	<b>13.2</b>		<b>51.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>460.</b>	<b>289.</b>	<b>189.5</b>	<b>15.</b>	<b>1.8</b>	<b>7.7</b>	<b>168.4</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>490.</b>	<b>299.</b>	<b>215.2</b>	<b>23.</b>	<b>5.3</b>	<b>7.8</b>	<b>183.6</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>510.</b>	<b>353.</b>	<b>227.7</b>	<b>30.</b>	<b>7.6</b>	<b>8.1</b>	<b>190.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>658.</b>	<b>398.</b>	<b>276.6</b>	<b>43.</b>	<b>14.5</b>	<b>8.2</b>	<b>243.5</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1330.</b>	<b>695.</b>	<b>291.1</b>	<b>60.</b>	<b>36.5</b>	<b>8.4</b>	<b>302.6</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
<b>SAMPLES(FLAGS)</b>	21(0)	21(0)	21(0)	21(0)	20(5)	20(5)	21(0)	21(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.3</b>	<b>22.5</b>	<b>48.0</b>	<b>13.5</b>	<b>0.</b>	<b>197.</b>	<b>17.8</b>	<b>28.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>8.0</b>	<b>412.5</b>	<b>97.5</b>	<b>36.</b>	<b>6.</b>	<b>400.</b>	<b>575.0</b>	<b>120.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>3.4</b>	<b>72.6</b>	<b>64.95</b>	<b>19.3</b>	<b>0.*</b>	<b>259.*</b>	<b>82.7</b>	<b>59.9</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.4</b>	<b>93.9</b>	<b>11.41</b>	<b>5.9</b>	<b>1.*</b>	<b>57.*</b>	<b>134.1</b>	<b>22.5</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>2.0</b>	<b>29.5</b>	<b>51.5</b>	<b>14.8</b>	<b>0.</b>	<b>202.</b>	<b>20.8</b>	<b>34.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.7</b>	<b>31.0</b>	<b>60.0</b>	<b>16.2</b>	<b>0.</b>	<b>218.</b>	<b>21.5</b>	<b>39.5</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>3.1</b>	<b>35.5</b>	<b>62.5</b>	<b>17.3</b>	<b>0.</b>	<b>231.</b>	<b>26.5</b>	<b>55.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>3.8</b>	<b>50.0</b>	<b>69.0</b>	<b>20.0</b>	<b>0.</b>	<b>291.</b>	<b>50.0</b>	<b>77.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>4.6</b>	<b>162.5</b>	<b>78.00</b>	<b>28.0</b>	<b>0.</b>	<b>348.</b>	<b>217.5</b>	<b>81.5</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
<b>SAMPLES(FLAGS)</b>	21(0)	21(2)	5(1)	20(0)		21(4)	21(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.10</b>	<b>L.003</b>	<b>L.003</b>	<b>.01</b>		<b>L.003</b>	<b>.006</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>1.88</b>	<b>.48</b>	<b>.032</b>	<b>.68</b>		<b>.046</b>	<b>.60</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.109</b>	<b>.124*</b>	<b>.015*</b>	<b>.208</b>		<b>.012*</b>	<b>.093</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.474</b>	<b>.164*</b>	<b>.015*</b>	<b>.189</b>		<b>.011*</b>	<b>.143</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.50</b>	<b>.006</b>		<b>.020</b>		<b>.003</b>	<b>.010</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.72</b>	<b>.013</b>	<b>.003</b>	<b>.043</b>		<b>.005</b>	<b>.025</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.32</b>	<b>.045</b>	<b>.006</b>	<b>.185</b>		<b>L.01</b>	<b>.05</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.44</b>	<b>.13</b>	<b>.029</b>	<b>.330</b>		<b>.011</b>	<b>.094</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.58</b>	<b>.445</b>		<b>.495</b>		<b>.02</b>	<b>.12</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0032 LAT. 57 D 6 M 54 S LONG. 111 D 37 M 22 S

UTM 12 462300E 6330140 N

AUG 11 1976 TO A OCT 25 1978

BEAVER RIVER AT HWY 63 - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	06101L CARBON DISSOLVED ORGANIC C	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	MG/L	MG/L	MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	21(0)	21(0)	21(0)	19(0)	11(0)	21(0)	21(0)	11(10)	ECHANTILLONS(IND.)
LOW	1.6	7.0	24.	7.0	6.4	22.	.05	L.0	MINIMUM
HIGH	8.9	85.	95.	35.0	13.	326.	.24	L.0	MAXIMUM
AVERAGE	5.77	23.6	38.8	17.0	9.1	80.	.15	.0*	MOYENNE
STD.DEV.	2.07	16.3	14.6	7.3	2.2	72	.05	0*	ECART-TYPE
PERCNT:10TH	3.5	13.5	29.5	7.	6.7	29	11	L 0	10 <sup>e</sup> PERCNT
25TH	4.3	16.0	32.0	12.5	7.0	38	12	L 0	25 <sup>e</sup>
MEDIAN 50TH	6.3	18.	36.	15.5	9.8	41.	.13	L.0	50 <sup>e</sup> MEDIANE
75TH	6.9	24.	38.5	20.0	10.8	103	17	L 0	75 <sup>e</sup>
90TH	8.4	36.0	45.	34.	11.4	155	23	L 0	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	M.L.	
SAMPLES(FLAGS)	21(0)	21(18)	5(1)	12(9)	9(9)	18(14)	19(4)	21(7)	ECHANTILLONS(IND.)
LOW	.20	L.0.	L.0.	L.001	L.001	L.001	L.1	L.02	MINIMUM
HIGH	2.60	8.5	36.	.004	L.01	.010	1.8	.31	MAXIMUM
AVERAGE	.86	1.6*	10.2*	.0016*		.002*	.7*	.13*	MOYENNE
STD.DEV.	.51	1.9*	14.5*	.0011*		.002*	5*	11*	ECART-TYPE
PERCNT:10TH	.4	L1.0		L.001		L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	.5	L1.0	3.	L.0010	L.001	L.001	5	L.02	25 <sup>e</sup>
MEDIAN 50TH	.7	L1.0	5.	L.0010	L.01	L.001	.7	.12	50 <sup>e</sup> MEDIANE
75TH	1.1	L1.0	6.	.0020*	L.01	L.001	1.1	22	75 <sup>e</sup>
90TH	1.3	2.0		.003		.004	1.4	25	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)	5(5)	21(1)	21(0)	7(7)	19(14)	2(1)	21(12)		ECHANTILLONS(IND.)
LOW	L.001	L.01	.01	L.01	L.001	L.001	L.003		MINIMUM
HIGH	L.001	.71	7.70	L.05	.024	.007	.205		MAXIMUM
AVERAGE		.14*	.64		.003*	.0040*	.014*		MOYENNE
STD.DEV.		.14*	1.67		.005*	.0042*	.044*		ECART-TYPE
PERCNT:10TH		.04	.05		L.001		L.003		10 <sup>e</sup> PERCNT
25TH	L.001	.09	.07	L.01	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH	L.001	.10	.14	L.05	L.001	.0040*	L.003		50 <sup>e</sup> MEDIANE
75TH	L.001	.14	.38	L.05	.002		.004		75 <sup>e</sup>
90TH		.22	.62		.004		.009		90 <sup>e</sup>
SECONDARY CODE	32L	36L			02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0032 LAT. 57 D 6M 54 S LONG. 111 D 37M 22 S

UTM 12 462300E 6330140 N  
AUG 11, 1976 TO/A OCT 25, 1978

## BEAVER RIVER AT HWY 63 - AOSERP

	25304L MANGANESE EXTRBLE. MN MG/L	26304L IRON EXTRBLE. FE MG/L	27302L COBALT EXTRBLE. CO MG/L	28302L NICKEL EXTRBLE. NI MG/L	29301L COPPER EXTRBL. CU MG/L	30305L ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	21(0)	21(0)	21(19)	21(15)	21(4)	21(1)	19(6)	19(16)	ECHANTILLONS(IND.)
LOW	.076	.30	L.001	L.001	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	.51	14.0	.011	.022	.014	.109	.0023	.001	MAXIMUM
AVERAGE	.209	2.07	.002*	.003*	.004*	.024*	.0008*	.0003*	MOYENNE
STD.DEV.	.112	3.55	.002*	.005*	.004*	.023*	.0006*	.0002*	ECART-TYPE
PERCNT:10TH	.105	.40	L.001	L.001	L.001	.005	.0003	L.0002	10 <sup>e</sup> PERCNT
25TH	.12	.47	L.001	L.002	.002	.014	.0004	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.180	.93	L.002	L.002	.003	.017	.0007	L.0002	50 <sup>e</sup> MEDIANE
75TH	.29	1.63	L.002	L.002	.004	.031	L.001	L.0005	75 <sup>e</sup>
90TH	.355	3.05	L.002	.008	.009	.046	.0022	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			8(7)		21(19)			21(19)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.001			.0002	MAXIMUM
AVERAGE			.00*		.001*			.0001*	MOYENNE
STD.DEV.			.00*		.000*			.0000*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			.00*		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.00		L.001			L.0001	75 <sup>e</sup>
90TH					L.001			L.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTRABLE MG/L	10551L RESIDUE FIXED FILTRABLE MG/L	
SAMPLES(FLAGS)	20(14)	21(0)	13(0)	13(2)	9(1)	20(0)	21(0)	20(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	9.	1500.	3.	277.	210.	MINIMUM
HIGH	.027	16.	240.	G2400.	67000.	55.	1452.	1204.	MAXIMUM
AVERAGE	.004*	4.	43.	477.*	22511.*	19.	452.	397.	MOYENNE
STD.DEV.	.006*	3.	71.	820.*	23661.*	19.	275.	242.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	9.		3.	294.	240.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	11.	4600.	4.	317.	271.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	17.	40.	13000.	9.	345.	307.	50 <sup>e</sup> MEDIANE
75TH	.005	4.	31.	350.	31000.	41.	455.	388.	75 <sup>e</sup>
90TH	.010	8.	110.	1600.		50.	730.	741.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent\* des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0033 LAT. 57 D 7 M 17 S LONG. 111 D 37 M 30 S

UTM 12 462170E 6330860 N

AUG 11 1976 TO/A OCT 18 1979

BRIDGE CREEK DIVERSION - AT HWY 63

- AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CaCO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL CaCO3	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL UNITS	JTU	PH UNITS	MG/L	PH UNITS	
SAMPLES(FLAGS)	31(0)	31(0)	31(0)	14(0)	29(0)	18(0)	31(0)		ECHANTILLONS(IND.)
LOW	93.	57.	39.8	15.	4.4	7.1	42.2		MINIMUM
HIGH	700.	471.	276.3	300.	185.	8.5	241.7		MAXIMUM
AVERAGE	340.	209.	134.1	146.	40.5		126.4		MOYENNE
STD.DEV.	153.	95.	56.6	72.	46.1		49.4		ECART-TYPE
PERCNT:10TH	165.	120.	75.8	40.	5.1	7.4	71.2		10 <sup>e</sup> PERCNT
25TH	220.	141.	90.4	110.	15.0	8.0	88.2		25 <sup>e</sup>
MEDIAN 50TH	310.	183.	126.1	150.	23.0	8.1	130.0		50 <sup>e</sup> MEDIANE
75TH	440.	270.	171.3	200.	37.5	8.2	173.4		75 <sup>e</sup>
90TH	525.	325.	193.9	200.	110.0	8.4	186.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K	11101L SODIUM DISSOLVED NA	20101L CALCIUM DISSOLVED CA	12102L MAGNESIUM DISSOLVED MG	06301L CARBONATE (CALCD.) CO3	06201L BICARBONATE (CALCD.) HCO3	17201L CHLORIDE DISSOLVED CL	16306L SULPHATE DISSOLVED SO4	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	31(0)	31(0)	31(0)	31(0)	31(16)	31(16)	31(0)	31(0)	ECHANTILLONS(IND.)
LOW	.8	5.9	10.50	3.3	0.	Q51.	2.0	7.1	MINIMUM
HIGH	3.7	64.0	79.00	20.6	34.	Q253.	76.0	105.0	MAXIMUM
AVERAGE	1.9	29.1	35.06	11.3	1.*	152.*	16.4	39.5	MOYENNE
STD.DEV.	.7	13.8	15.63	4.4	6.*	56.*	17.4	25.5	ECART-TYPE
PERCNT:10TH	1.1	17.2	18.5	6.4	0.	Q87.	4.4	15.5	10 <sup>e</sup> PERCNT
25TH	1.3	20.5	23.0	7.8	0.	108.	6.0	21.7	25 <sup>e</sup>
MEDIAN 50TH	1.8	25.9	33.50	10.7	Q0.	158.	9.6	31.0	50 <sup>e</sup> MEDIANE
75TH	2.4	35.0	45.5	14.0	Q0.	211.	21.0	45.2	75 <sup>e</sup>
90TH	2.9	47.0	52.5	17.5	Q0.	226.	38.0	84.0	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N	07110L NITROGEN DISSOLVED NO3 & NO2 N	07206L NITROGEN DISSOLVED NITRITE N	07555L NITROGEN DISSOLVED AMMONIA N	07651L NITROGEN DISSOLVED N	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P	15406L PHOSPHORUS TOTAL P	15407L PHOSPHATE TOTAL PO4	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	31(0)	31(5)	15(1)	30(0)		31(1)	31(0)		ECHANTILLONS(IND.)
LOW	.50	L.003	L.003	.023		.005	.028		MINIMUM
HIGH	3.12	.30	.021	.29		.080	.220		MAXIMUM
AVERAGE	1.525	.035*	.010*	.108		.022*	.077		MOYENNE
STD.DEV.	.683	.055*	.006*	.073		.017*	.049		ECART-TYPE
PERCNT:10TH	.83	.007	.003	.035		L.01	.038		10 <sup>e</sup> PERCNT
25TH	1.10	.008	.004	.06		.01	.043		25 <sup>e</sup>
MEDIAN 50TH	1.44	.01	.008	.086		.017	.057		50 <sup>e</sup> MEDIANE
75TH	1.64	.042	.014	.138		.030	.09		75 <sup>e</sup>
90TH	2.60	.069	.017	.230		.042	.146		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0033** LAT. **57 D 7 M 17 S** LONG. **111 D 37 M 30 S**UTM **12 462170E 6330860 N**  
AUG 11, 1976 TO/A OCT 18, 1979BRIDGE CREEK DIVERSION - AT HWY 63  
- AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>31(0)</b>	<b>31(0)</b>	<b>27(0)</b>	<b>28(0)</b>	<b>15(0)</b>	<b>30(0)</b>	<b>27(5)</b>	<b>21(19)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>2.7</b>	<b>13.0</b>	<b>7.5</b>	<b>11.0</b>	<b>7.2</b>	<b>30.</b>	<b>L.05</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>10.50</b>	<b>83.5</b>	<b>57.0</b>	<b>46.</b>	<b>13.</b>	<b>1886.</b>	<b>.20</b>	<b>.1</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>5.57</b>	<b>36.4</b>	<b>26.8</b>	<b>30.6</b>	<b>9.8</b>	<b>170.</b>	<b>.11*</b>	<b>.0*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>2.20</b>	<b>14.6</b>	<b>13.9</b>	<b>11.2</b>	<b>1.9</b>	<b>329.</b>	<b>.05*</b>	<b>.0*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>3.1</b>	<b>17.5</b>	<b>10.5</b>	<b>12.0</b>	<b>7.6</b>	<b>39.</b>	<b>L.05</b>	<b>L.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>4.10</b>	<b>23.5</b>	<b>15.</b>	<b>20.0</b>	<b>8.4</b>	<b>85.</b>	<b>.06</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>5.10</b>	<b>37.</b>	<b>27.</b>	<b>34.8</b>	<b>9.3</b>	<b>112.</b>	<b>.11</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>7.3</b>	<b>46.5</b>	<b>36.5</b>	<b>38.3</b>	<b>11.2</b>	<b>129.</b>	<b>.15</b>	<b>.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>9.00</b>	<b>49.</b>	<b>50.0</b>	<b>44.0</b>	<b>13.</b>	<b>172.</b>	<b>.16</b>	<b>L.0</b>	<b>90<sup>e</sup></b>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
<b>SAMPLES(FLAGS)</b>	<b>31(0)</b>	<b>31(4)</b>	<b>17(0)</b>	<b>20(14)</b>	<b>9(4)</b>	<b>28(12)</b>	<b>29(3)</b>	<b>26(7)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.15</b>	<b>L.0.</b>	<b>2.</b>	<b>L.001</b>	<b>.001</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>4.6</b>	<b>21.5</b>	<b>65.</b>	<b>.013</b>	<b>L.01</b>	<b>.031</b>	<b>4.9</b>	<b>.36</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.39</b>	<b>4.1*</b>	<b>28.4</b>	<b>.0019*</b>	<b>.006*</b>	<b>.004*</b>	<b>1.2*</b>	<b>.18*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.04</b>	<b>4.0*</b>	<b>17.2</b>	<b>.0027*</b>	<b>.004*</b>	<b>.006*</b>	<b>1.3*</b>	<b>.12*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.0</b>	<b>L.0.</b>	<b>3.</b>	<b>L.0010</b>		<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.8</b>	<b>1.5</b>	<b>15.</b>	<b>L.0010</b>	<b>.002</b>	<b>L.001</b>	<b>.3</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.40</b>	<b>4.</b>	<b>31.</b>	<b>L.0010</b>	<b>.004</b>	<b>.001</b>	<b>.7</b>	<b>.20</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>3.30</b>	<b>5.5</b>	<b>37.</b>	<b>.0015</b>	<b>L.01</b>	<b>.006</b>	<b>1.4</b>	<b>.28</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>3.7</b>	<b>7.</b>	<b>50.</b>	<b>.0030</b>		<b>.012</b>	<b>4.5</b>	<b>.30</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>	<b>17(17)</b>	<b>31(0)</b>	<b>31(0)</b>	<b>9(9)</b>	<b>29(18)</b>	<b>2(2)</b>	<b>31(15)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>	<b>.01</b>	<b>.05</b>	<b>L.01</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>L.001</b>	<b>.35</b>	<b>2.70</b>	<b>L.05</b>	<b>.007</b>	<b>L.001</b>	<b>.177</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.17</b>	<b>.55</b>		<b>.001*</b>		<b>.013*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.08</b>	<b>.75</b>		<b>.001*</b>		<b>.031*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.001</b>	<b>.06</b>	<b>.11</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.001</b>	<b>.10</b>	<b>.17</b>	<b>L.01</b>	<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.001</b>	<b>.16</b>	<b>.24</b>	<b>L.01</b>	<b>L.001</b>	<b>L.0010</b>	<b>.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.001</b>	<b>.23</b>	<b>.61</b>	<b>L.01</b>	<b>.001</b>		<b>.013</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>L.001</b>	<b>.27</b>	<b>.87</b>		<b>.003</b>		<b>.020</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	02L	06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0033 LAT. 57 D 7M 17 S LONG. 111 D 37M 30 S

UTM 12 462170E 6330860 N  
AUG 11 1976 TO/A OCT 18 1979BRIDGE CREEK DIVERSION - AT HWY 63  
AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	31104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	31(0)	31(0)	31(25)	31(14)	31(5)	31(0)	31(5)	31(28)	ECHANTILLONS(IND.)
LOW	.040	.18	L.001	L.001	L.001	.001	.0003	L.0002	MINIMUM
HIGH	.560	6.90	.004	.011	.016	.086	.005	L.0005	MAXIMUM
AVERAGE	.135	1.89	.002*	.003*	.003*	.020	.0013*	.0003*	MOYENNE
STD.DEV.	.098	1.22	.001*	.002*	.003*	.018	.0012*	.0001*	ECART-TYPE
PERCNT:10TH	.056	.94	L.001	L.001	L.001	.004	.0004	L.0002	10 <sup>e</sup> PERCNT
25TH	.074	1.06	L.001	.001	.001	.009	.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.100	1.60	.001	L.002	.002	.014	.0009	L.0002	50 <sup>e</sup> MEDIANE
75TH	.170	2.45	L.002	.003	.004	.029	.0015	.0002	75 <sup>e</sup>
90TH	.210	3.15	L.002	.004	.004	.035	.0024	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			7(7)		31(31)			31(25)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		L.001			.0064	MAXIMUM
AVERAGE								.0004*	MOYENNE
STD.DEV.								.0011*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0001	75 <sup>e</sup>
90TH					L.001			.0005	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO 100ML	MPN NO 100ML	NO ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	31(22)	31(0)	21(0)	22(2)	21(2)	31(0)	31(0)	30(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	120.	3.	65.	47.	MINIMUM
HIGH	.011	16.	49.	G2400.	30000.	378.	462.	308.	MAXIMUM
AVERAGE	.003*	4.	12.	192.*	15289.*	57.	221.	164.	MOYENNE
STD.DEV.	.002*	3.	17.	501.*	34383.*	93.	93.	69.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	2.	200.	9.	123.	83.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	16.	650.	15.	164.	116.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	6.	76.	1800.	23.	203.	149.	50 <sup>e</sup> MEDIANE
75TH	.004	8.	13.	140.	5500.	38.	284.	219.	75 <sup>e</sup>
90TH	.007	8.	46.	G210.	32000.	113.	336.	258.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0034** LAT. **57 D 29 M 5 S** LONG. **112 D 1 M 10 S** UTM **12 438890 E 6371590 N**  
OCT 09, 1976 TO/A MAY 03, 1978

UPPER TAR RIVER - 26 AIR MILES NORTH  
WEST OF FORT MACKAY - AT WSC GAUGE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	12(0)	12(0)	12(0)	12(0)	10(0)	7(0)	12(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>60.</b>	<b>37.</b>	<b>33.2</b>	<b>1.</b>	<b>1.4</b>	<b>7.6</b>	<b>28.4</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>595.</b>	<b>362.</b>	<b>316.7</b>	<b>200.</b>	<b>11.6</b>	<b>8.2</b>	<b>298.2</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>278.</b>	<b>157.</b>	<b>140.1</b>	<b>61.</b>	<b>4.7</b>		<b>139.7</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	165.	99.	75.0	54.	3.7		80.8		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	171.	88.	83.8	10.	1.5		83.0		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	177.	101.	98.1	33.	1.7	7.8	93.5		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>221.</b>	<b>124.</b>	<b>118.8</b>	<b>48.</b>	<b>3.4</b>	<b>8.1</b>	<b>114.6</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	325.	176.	171.3	75.	6.1	8.2	161.0		<b>75<sup>e</sup></b>
<b>90TH</b>	590.	338.	223.9	120.	11.0		288.2		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.5</b>	<b>1.0</b>	<b>9.0</b>	<b>2.6</b>	<b>0.</b>	<b>35.</b>	<b>.3</b>	<b>3.9</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>3.9</b>	<b>62.5</b>	<b>81.5</b>	<b>27.5</b>	<b>0.</b>	<b>364.</b>	<b>26.3</b>	<b>34.5</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.3</b>	<b>8.9</b>	<b>36.98</b>	<b>11.6</b>	<b>0.</b>	<b>170.</b>	<b>2.8</b>	<b>11.8</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	1.0	17.1	19.12	6.6	0.	98.	7.4	8.8	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.6	2.0	22.5	6.7	0.	101.	.3	5.1	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.8	2.6	26.50	7.8	0.	114.	.4	6.5	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.0</b>	<b>3.7</b>	<b>31.50</b>	<b>9.8</b>	<b>0.</b>	<b>140.</b>	<b>.6</b>	<b>9.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.4	4.9	46.25	13.9	0.	196.	1.0	14.3	<b>75<sup>e</sup></b>
<b>90TH</b>	2.6	11.0	57.5	19.5	0.	351.	1.5	20.5	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	12(1)	12(2)	3(2)	12(1)		12(1)	12(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.1</b>	<b>L.003</b>	<b>L.003</b>	<b>L.01</b>		<b>.005</b>	<b>.028</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>3.20</b>	<b>.24</b>	<b>.003</b>	<b>.21</b>		<b>.05</b>	<b>.243</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.967*</b>	<b>.056*</b>	<b>.003*</b>	<b>.056*</b>		<b>.018*</b>	<b>.082</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.761*</b>	<b>.075*</b>	<b>.000*</b>	<b>.060*</b>		<b>.012*</b>	<b>.054</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.56	.003		.01		.009	.040		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.600	.010*		.015		.010*	.061		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.810</b>	<b>.017</b>	<b>L.003</b>	<b>.033</b>		<b>.014</b>	<b>.070</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.060	.093		.070		.021	.085		<b>75<sup>e</sup></b>
<b>90TH</b>	1.16	.15		.13		.03	.10		<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

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## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0034 LAT. 57 D 29M 5 S LONG. 112 D 1M 10 S

UTM 12 438890E 6371590 N  
OCT 09 1976 TO/A MAY 03 1978UPPER TAR RIVER - 26 AIR MILES NORTH  
WEST OF FORT MACKAY - AT WSC GAUGE

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SIO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	12(0)	12(0)	12(0)	12(0)	6(0)	12(0)	11(0)	3(3)	ECHANTILLONS(IND.)
LOW	2.8	9.0	5.0	7.0	6.8	20.	.07	L.0	MINIMUM
HIGH	16.2	36.0	70.0	36.0	15.2	141.	.22	L.0	MAXIMUM
AVERAGE	7.79	17.1	28.1	15.9	11.2	51.	.14		MOYENNE
STD.DEV.	3.74	7.2	17.1	7.5	3.1	42.	.05		ECART-TYPE
PERCNT:10TH	4.8	11.0	15.	9.5		20.	.09		10 <sup>e</sup> PERCNT
25TH	5.20	11.3	17.0	10.5	8.6	28.	.10		25 <sup>e</sup>
MEDIAN 50TH	6.85	17.5	24.3	15.0	11.9	32.	.14	L.0	50 <sup>e</sup> MEDIANE
75TH	9.35	19.5	36.5	18.0	13.0	56.	.17		75 <sup>e</sup>
90TH	12.8	21.	44.	20.5		132.	.21		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHMTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	12(0)	12(10)		3(3)	4(4)	11(7)	11(4)	12(5)	ECHANTILLONS(IND.)
LOW	.35	L1.0		L.001	L.001	L.001	L.1	L.02	MINIMUM
HIGH	2.4	2.0		L.001	L.01	.019	2.2	.25	MAXIMUM
AVERAGE	.95	1.1*				.004*	.6*	.07*	MOYENNE
STD.DEV.	.58	.3*				.006*	.8*	.08*	ECART-TYPE
PERCNT:10TH	.4	L1.0				L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	.60	L1.0			L.005	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.80	L1.0		L.001	L.010	L.001	.2	.03	50 <sup>e</sup> MEDIANE
75TH	1.05	L1.0			L.010	.003	.6	.09	75 <sup>e</sup>
90TH	1.7	1.0				.011	2.0	.20	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		12(0)	12(1)	4(4)	11(11)	1(1)	12(11)		ECHANTILLONS(IND.)
LOW		.01	L.01	L.01	L.001	L.001	L.003		MINIMUM
HIGH		.28	.38	L.05	L.001	L.001	.01		MAXIMUM
AVERAGE		.12	.10*				.004*		MOYENNE
STD.DEV.		.08	.11*				.002*		ECART-TYPE
PERCNT:10TH		.02	.03		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.09	.04	L.030	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.11	.05	L.050	L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.18	.14	L.050	L.001		L.003		75 <sup>e</sup>
90TH		.21	.24		L.001		L.003		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0034** LAT. **57 D 29 M 5 S** LONG. **112 D 1 M 10 S**UTM **12 438890 E 6371590 N**  
OCT 09, 1976 TO/A MAY 03, 1978UPPER TAR RIVER - 26 AIR MILES NORTH  
WEST OF FORT MACKAY - AT WSC GAUGE

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>12(12)</b>	<b>12(12)</b>	<b>12(1)</b>	<b>12(0)</b>	<b>11(3)</b>	<b>11(11)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.047</b>	<b>.63</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>.001</b>	<b>L.0002</b>	<b>L.0002</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.50</b>	<b>3.95</b>	<b>L.002</b>	<b>L.002</b>	<b>.015</b>	<b>.047</b>	<b>.003</b>	<b>L.0005</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.182</b>	<b>1.47</b>			<b>.004*</b>	<b>.014</b>	<b>.0010*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.148</b>	<b>.91</b>			<b>.004*</b>	<b>.016</b>	<b>.0008*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.069</b>	<b>.65</b>	<b>L.002</b>	<b>L.002</b>	<b>.001</b>	<b>.002</b>	<b>L.0005</b>	<b>L.0002</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.082</b>	<b>.90</b>	<b>L.002</b>	<b>L.002</b>	<b>.002</b>	<b>.003</b>	<b>L.0005</b>	<b>L.0002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.105</b>	<b>1.29</b>	<b>L.002</b>	<b>L.002</b>	<b>.004</b>	<b>.006</b>	<b>.0006</b>	<b>L.0002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.291</b>	<b>1.70</b>	<b>L.002</b>	<b>L.002</b>	<b>.004</b>	<b>.024</b>	<b>.0014</b>	<b>L.0005</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.38</b>	<b>1.95</b>	<b>L.002</b>	<b>L.002</b>	<b>.012</b>	<b>.037</b>	<b>.002</b>	<b>L.0005</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			<b>6(5)</b>		<b>12(12)</b>			<b>12(10)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0001</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>.01</b>		<b>L.001</b>			<b>.0004</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.00*</b>					<b>.0001*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.00*</b>					<b>.0001*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					<b>L.001</b>			<b>L.0001</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>L.01</b>		<b>L.001</b>			<b>L.0001</b>	<b>75<sup>e</sup></b>
<b>90TH</b>					<b>L.001</b>			<b>.0003</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO./ML	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML		MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>12(11)</b>	<b>12(0)</b>	<b>8(1)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>11(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.002</b>	<b>1.</b>	<b>0.</b>	<b>2.</b>	<b>61.</b>	<b>2.</b>	<b>39.</b>	<b>81.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.003</b>	<b>4.</b>	<b>23.</b>	<b>23.</b>	<b>6700.</b>	<b>20.</b>	<b>389.</b>	<b>331.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.002*</b>	<b>2.</b>	<b>6.*</b>	<b>7.</b>	<b>1504.</b>	<b>8.</b>	<b>171.</b>	<b>155.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.000*</b>	<b>1.</b>	<b>8.*</b>	<b>8.</b>	<b>2269.</b>	<b>6.</b>	<b>108.</b>	<b>92.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.002</b>	<b>2.</b>				<b>3.</b>	<b>104.</b>	<b>89.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.002</b>	<b>2.</b>	<b>0.</b>	<b>2.</b>	<b>295.</b>	<b>4.</b>	<b>115.</b>	<b>92.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.002</b>	<b>2.</b>	<b>2.*</b>	<b>5.</b>	<b>580.</b>	<b>5.</b>	<b>136.</b>	<b>123.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.002</b>	<b>3.</b>	<b>10.</b>	<b>10.</b>	<b>1760.</b>	<b>10.</b>	<b>190.</b>	<b>210.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>L.002</b>	<b>4.</b>				<b>20.</b>	<b>378.</b>	<b>318.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0035 LAT. 56 D 44 M 33 S LONG. 111 D 23 M 25 S

UTM 12 476140 E 6288570 N  
JUN 28 1976 TO/A OCT 06 1976ATHABASCA RIVER - OFF McDONALD ISLAND  
- AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00212L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	14(0)	15(0)	15(1)	15(0)	9(0)		15(0)		ECHANTILLONS(IND.)
LOW	132.	76.	63.5	25.	33.0		8.1		MINIMUM
HIGH	220.	128.	115.4	200.	675.		104.0		MAXIMUM
AVERAGE	179.	100.	84.7*	85.	200.7		77.3		MOYENNE
STD.DEV.	27.	15.	14.8*	52.	209.2		22.0		ECART-TYPE
PERCNT:10TH	140.	80.	64.3	25.			66.8		10 <sup>e</sup> PERCNT
25TH	156.	82.	75.9	50.	62.4		68.1		25 <sup>e</sup>
MEDIAN 50TH	188.	100.	83.0	70.	84.5		82.0		50 <sup>e</sup> MEDIANE
75TH	199.	109.	92.9	120.	255.		87.6		75 <sup>e</sup>
90TH	200.	119.	107.0	160.			98.2		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	16(0)	15(0)	17(0)	15(0)	14(0)	14(0)	16(0)	16(0)	ECHANTILLONS(IND.)
LOW	.2	5.9	17.5	4.5	0.	81.	.2	.5	MINIMUM
HIGH	1.5	9.6	73.1	7.8	0.	127.	6.0	28.5	MAXIMUM
AVERAGE	.8	7.2	27.35	6.3	0.	100.	2.5	11.9	MOYENNE
STD.DEV.	.4	1.1	13.10	1.0	0.	14.	1.6	8.5	ECART-TYPE
PERCNT:10TH	.4	5.9	18.0	4.5	0.	81.	1.0	.5	10 <sup>e</sup> PERCNT
25TH	.5	6.0	21.5	5.7	0.	91.	1.4	4.5	25 <sup>e</sup>
MEDIAN 50TH	.9	7.1	23.0	6.4	0.	101.	2.3	13.1	50 <sup>e</sup> MEDIANE
75TH	1.0	8.1	26.0	7.2	0.	107.	3.4	15.1	75 <sup>e</sup>
90TH	1.4	8.5	39.9	7.5	0.	120.	5.1	27.0	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	15(0)	15(8)		15(0)		16(3)	16(0)		ECHANTILLONS(IND.)
LOW	.37	L.01		.01		L.005	.02		MINIMUM
HIGH	3.20	.66		.24		.03	1.85		MAXIMUM
AVERAGE	1.479	.057*		.069		.013*	.322		MOYENNE
STD.DEV.	.930	.167*		.062		.007*	.441		ECART-TYPE
PERCNT:10TH	.40	L.01		.02		.009	.100		10 <sup>e</sup> PERCNT
25TH	.73	L.01		.02		.010*	.116		25 <sup>e</sup>
MEDIAN 50TH	1.15	L.01		.04		.010	.145		50 <sup>e</sup> MEDIANE
75TH	2.00	.02		.10		.020	.370		75 <sup>e</sup>
90TH	3.19	.04		.13		.02	.62		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0035 LAT. 56 D 44 M 33 S LONG. 111 D 23 M 25 S

UTM 12 476140E 6288570 N  
JUN 28. 1976 TO/A OCT 06. 1976ATHABASCA RIVER - OFF MCDONALD ISLAND  
- AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	15(0)	15(0)	15(0)	4(0)		15(0)	15(0)	15(14)	ECHANTILLONS(IND.)
LOW	4.7	10.5	11.	18.0		34.	.06	L.0	MINIMUM
HIGH	6.9	70.	40.	23.0		267.	.10	.1	MAXIMUM
AVERAGE	5.71	25.8	20.5	20.1		80.	.09	.0*	MOYENNE
STD.DEV.	.59	17.1	7.3	2.3		61.	.01	.0*	ECART-TYPE
PERCNT:10TH	4.8	12.	13.			37.	.07	L.0	10 <sup>e</sup> PERCNT
25TH	5.4	13.5	14.5	18.3		43.	.08	L.0	25 <sup>e</sup>
MEDIAN 50TH	5.8	19.5	19.0	19.8		64.	.09	L.0	50 <sup>e</sup> MEDIANE
75TH	6.1	31.	24.5	22.0		100.	.10	L.0	75 <sup>e</sup>
90TH	6.3	57.	27.0			136.	.10	L.0	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	15(0)	15(0)		1(1)	15(15)	14(8)	15(9)	15(14)	ECHANTILLONS(IND.)
LOW	.85	2.0		L.002	L.01	L.001	L.1	L.02	MINIMUM
HIGH	3.10	14.5		L.002	L.01	.022	5.0	.02	MAXIMUM
AVERAGE	1.78	8.9				.005*	.6*	.02*	MOYENNE
STD.DEV.	.78	3.8				.006*	1.2*	.00*	ECART-TYPE
PERCNT:10TH	.90	5.5			L.01	L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	1.00	6.0			L.01	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	2.00	8.0			L.01	L.001	L.1	L.02	50 <sup>e</sup> MEDIANE
75TH	2.30	12.5			L.01	.008	.4	L.02	75 <sup>e</sup>
90TH	2.90	14.0			L.01	.009	.7	L.02	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		15(0)	15(0)			15(11)	14(8)		ECHANTILLONS(IND.)
LOW		.01	.04			L.001	L.003		MINIMUM
HIGH		1.51	4.5			.014	.018		MAXIMUM
AVERAGE		.20	1.43			.0040*	.005*		MOYENNE
STD.DEV.		.38	1.19			.0045*	.004*		ECART-TYPE
PERCNT:10TH		.02	.43			L.001	L.003		10 <sup>e</sup> PERCNT
25TH		.03	.62			L.001	L.003		25 <sup>e</sup>
MEDIAN 50TH		.06	1.21			L.001	L.003		50 <sup>e</sup> MEDIANE
75TH		.16	1.75			L.01	.005		75 <sup>e</sup>
90TH		.45	2.95			L.01	.008		90 <sup>e</sup>
SECONDARY CODE				02L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

00AT07DA0035

LAT 56° 44' 33"

LONG 111° 23' 25"

TM 12 476140

6288570

MAY 14 1976 TO: A MAY 05 1977

ATHABASCA RIVER - OFF McDONALD ISLAND

- AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	31104L ARSENIC DISSOLVED	34112L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	15(0)	15(0)	15(11)	15(4)	15(0)	15(0)		2(2)	ECHANTILLONS(IND.)
LOW	.056	1.60	L.002	L.002	.002	.014		L.0005	MINIMUM
HIGH	1.70	63.0	.043	.08	.059	.331		L.0005	MAXIMUM
AVERAGE	.250	8.49	.006*	.016*	.016	.054			MOYENNE
STD.DEV.	.412	15.40	.010*	.025*	.018	.079			ECART-TYPE
PERCNT:10TH	.06	2.10	L.002	L.002	.004	.014			10 <sup>e</sup> PERCNT
25TH	.066	2.30	L.002	L.002	.005	.015			25 <sup>e</sup>
MEDIAN 50TH	.11	2.90	L.002	.004	.009	.036		L.0005	50 <sup>e</sup> MEDIANE
75TH	.290	9.0	.006	.022	.014	.058			75 <sup>e</sup>
90TH	.320	10.2	.006	.071	.053	.069			90 <sup>e</sup>
SECONDARY CODE					06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			14(14)	1(1)	14(14)			14(13)	ECHANTILLONS(IND.)
LOW			L.01	L.001	L.001			L.0002	MINIMUM
HIGH			L.01	L.001	L.001			.0044	MAXIMUM
AVERAGE								.0005*	MOYENNE
STD.DEV.								.0011*	ECART-TYPE
PERCNT:10TH			L.01		L.001			L.0002	10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0002	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0002	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0002	75 <sup>e</sup>
90TH			L.01		L.001			L.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTRABLE	10551L RESIDUE FIXED FILTRABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	15(6)	15(0)				15(0)	15(0)	15(0)	ECHANTILLONS(IND.)
LOW	L.002	2.				4.	84.	52.	MINIMUM
HIGH	.026	32.				2602.	144.	114.	MAXIMUM
AVERAGE	.006*	5.				326.	113.	89.	MOYENNE
STD.DEV.	.007*	8.				645.	18.	18.	ECART-TYPE
PERCNT:10TH	L.002	2.				15.	84.	64.	10 <sup>e</sup> PERCNT
25TH	L.002	2.				51.	101.	78.	25 <sup>e</sup>
MEDIAN 50TH	.002	2.				130.	114.	85.	50 <sup>e</sup> MEDIANE
75TH	.008	4.				386.	128.	108.	75 <sup>e</sup>
90TH	.019	4.				433.	131.	114.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0036 LAT. 56 D 46 M 48 S LONG. 111 D 24 M 18 S

UTM 12 475260 E 6292750 N  
JUN 28, 1976 TO/A FEB 26, 1977ATHABASCA RIVER - SITE 3 - MILE 6.5 -  
AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	7(0)	6(0)	7(0)	7(0)	6(0)	1(0)	7(0)		ECHANTILLONS(IND.)
LOW	140.	110.	60.1	15.	1.6	8.2	61.5		MINIMUM
HIGH	320.	185.	154.3	80.	168.	8.2	133.0		MAXIMUM
AVERAGE	247.	150.	108.2	37.	58.6		100.2		MOYENNE
STD.DEV.	72.	36.	38.1	22.	72.7		27.6		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	188.	118.	72.1	20.	3.2		76.0		25 <sup>e</sup>
MEDIAN 50TH	240.	152.	107.8	30.	24.4		96.0		50 <sup>e</sup> MEDIANE
75TH	320.	182.	151.8	50.	130.		131.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	6(0)	ECHANTILLONS(IND.)
LOW	.5	6.5	15.5	5.2	0.	75.	2.0	.6	MINIMUM
HIGH	2.1	20.5	42.5	11.7	0.	162.	18.8	32.0	MAXIMUM
AVERAGE	1.3	13.3	29.64	8.3	0.	122.	10.6	19.5	MOYENNE
STD.DEV.	.6	4.3	10.93	2.6	0.	34.	6.4	11.4	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.8	10.5	19.0	6.0	0.	93.	5.0	13.3	25 <sup>e</sup>
MEDIAN 50TH	1.2	13.5	30.0	8.0	0.	117.	11.6	21.2	50 <sup>e</sup> MEDIANE
75TH	1.9	14.5	42.5	11.1	0.	160.	16.9	28.5	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L	02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
SAMPLES(FLAGS)	7(0)	7(3)		7(0)		7(4)	7(0)		ECHANTILLONS(IND.)
LOW	.64	L.01		.03		L.005	.03		MINIMUM
HIGH	4.17	.62		.82		.17	.43		MAXIMUM
AVERAGE	1.590	.119*		.243		.037*	.192		MOYENNE
STD.DEV.	1.357	.223*		.302		.060*	.150		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.67	L.01		.05		L.005	.05		25 <sup>e</sup>
MEDIAN 50TH	.77	.05		.08		L.01	.185		50 <sup>e</sup> MEDIANE
75TH	2.70	.07		.50		.04	.35		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0036 LAT. 56 D 46 M 48 S LONG. 111 D 24 M 18 S

UTM 12 475260 E 6292750 N  
JUN 28 1976 TO: A FEB 26 1977ATHABASCA RIVER - SITE 3 - MILE 6.5  
AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	06102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	4(0)	1(0)	7(0)	7(0)	5(5)	ECHANTILLONS(IND.)
LOW	4.8	11.	15.5	7.	13.4	20.	.07	L.0	MINIMUM
HIGH	9.2	61.	28.0	14.0	13.4	91.	.90	L.0	MAXIMUM
AVERAGE	7.26	20.7	21.8	10.0		60.	.22		MOYENNE
STD.DEV.	1.69	18.1	5.6	3.2		27.	.30		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	5.8	11.	16.5	7.5		30.	.08	L.0	25 <sup>e</sup>
MEDIAN 50TH	7.9	14.5	21.	9.5		71.	.09	L.0	50 <sup>e</sup> MEDIANE
75TH	8.9	20.5	28.	12.5		80.	.18	L.0	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	7(0)	7(3)		5(5)	5(5)	7(5)	7(3)	7(7)	ECHANTILLONS(IND.)
LOW	.50	L1.0		L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	1.80	19.0		L.002	L.01	.010	7.0	L.02	MAXIMUM
AVERAGE	.89	5.9*				.003*	1.9*		MOYENNE
STD.DEV.	.47	6.9*				.003*	2.8*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.50	L1.0		L.001	L.01	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.70	2.0		L.001	L.01	L.001	.5	L.02	50 <sup>e</sup> MEDIANE
75TH	1.20	11.0		L.001	L.01	.003	4.9	L.02	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		7(0)	7(1)		3(3)	4(4)	7(6)		ECHANTILLONS(IND.)
LOW		.06	L.01		L.001	L.001	L.003		MINIMUM
HIGH		.32	2.00		L.001	L.01	.009		MAXIMUM
AVERAGE		.13	.66*				.004*		MOYENNE
STD.DEV.		.09	.80*				.002*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.07	.05			L.0010	L.003		25 <sup>e</sup>
MEDIAN 50TH		.09	.27		L.001	L.0055	L.003		50 <sup>e</sup> MEDIANE
75TH		.20	1.55			L.0100	L.003		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0036** LAT. **56 D 46 M 48 S** LONG. **111 D 24 M 18 S**UTM **12 475260E 6292750 N**  
JUN 28, 1976 TO/A FEB 26, 1977ATHABASCA RIVER - SITE 3 - MILE 6.5 -  
AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	7(0)	7(0)	7(5)	7(4)	7(1)	7(0)	7(7)	5(2)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.008</b>	<b>.29</b>	<b>L.002</b>	<b>L.002</b>	<b>L.001</b>	<b>.002</b>	<b>L.001</b>	<b>L.0005</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.280</b>	<b>9.0</b>	<b>.006</b>	<b>.023</b>	<b>.049</b>	<b>.047</b>	<b>L.005</b>	<b>.0008</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.091</b>	<b>2.92</b>	<b>.003*</b>	<b>.007*</b>	<b>.012*</b>	<b>.016</b>		<b>.0006*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.107</b>	<b>3.74</b>	<b>.002*</b>	<b>.009*</b>	<b>.017*</b>	<b>.015</b>		<b>.0002*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.016</b>	<b>.31</b>	<b>L.002</b>	<b>L.002</b>	<b>.003</b>	<b>.004</b>	<b>L.001</b>	<b>L.0005</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.035</b>	<b>.75</b>	<b>L.002</b>	<b>L.002</b>	<b>.005</b>	<b>.013</b>	<b>L.001</b>	<b>.0005</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.200</b>	<b>7.60</b>	<b>.002</b>	<b>.019</b>	<b>.016</b>	<b>.019</b>	<b>L.005</b>	<b>.0008</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			6(5)		7(7)			7(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>L.01</b>		<b>L.001</b>			<b>L.0001</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>.01</b>		<b>L.001</b>			<b>L.0002</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.00*</b>						<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.00*</b>						<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>L.01</b>		<b>L.001</b>			<b>L.0001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>L.01</b>		<b>L.001</b>			<b>L.0002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	7(4)	7(0)	1(0)	1(0)	1(1)	7(0)	7(0)	7(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.002</b>	<b>2.</b>	<b>0.</b>	<b>0.</b>	<b>G3000.</b>	<b>2.</b>	<b>88.</b>	<b>56.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.050</b>	<b>4.</b>	<b>0.</b>	<b>0.</b>	<b>G3000.</b>	<b>237.</b>	<b>210.</b>	<b>192.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.009*</b>	<b>3.</b>				<b>81.</b>	<b>159.</b>	<b>129.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.018*</b>	<b>1.</b>				<b>94.</b>	<b>48.</b>	<b>56.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.002</b>	<b>2.</b>				<b>4.</b>	<b>127.</b>	<b>75.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.002</b>	<b>2.</b>				<b>44.</b>	<b>148.</b>	<b>116.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.006</b>	<b>4.</b>				<b>190.</b>	<b>205.</b>	<b>183.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0037 LAT. 56 D 58 M 1 S LONG. 111 D 27 M 14 S

UTM 12 472400E 6313580 N  
FEB 12 1976 TO/A NOV 22 1976ATHABASCA RIVER ABOVE G.C.O.S. PLANT -  
AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE CM								
SAMPLES(FLAGS)	8(0)	8(0)	8(5)	8(0)	8(0)	7(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	198.	108.	Q97.5	10.	3.8	6.9	82.0	-.3	MINIMUM
HIGH	342.	189.	152.9	60.	68.	8.3	131.	.3	MAXIMUM
AVERAGE	281.	152.	126.3*	31.	21.4		108.2		MOYENNE
STD.DEV.	57.	28.	22.8*	15.	22.1		18.6		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	239.	135.	103.0	20.	4.5	7.2	91.6	-.3	25 <sup>e</sup>
MEDIAN 50TH	280.	147.	131.6	30.	15.5	8.0	111.5	-.1	50 <sup>e</sup> MEDIANE
75TH	336.	177.	145.2	38.	29.5	8.2	123.0	-.1	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	.8	7.2	27.6	6.9	0.	100.	4.9	12.	MINIMUM
HIGH	2.0	18.1	42.1	11.6	0.	160.	16.0	29.	MAXIMUM
AVERAGE	1.5	13.0	35.04	9.4	0.	132.	9.3	22.6	MOYENNE
STD.DEV.	.4	3.6	5.70	2.1	0.	23.	3.6	5.8	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.4	10.1	29.55	7.0	0.	112.	6.7	19.5	25 <sup>e</sup>
MEDIAN 50TH	1.5	13.9	36.00	9.9	0.	136.	9.5	23.5	50 <sup>e</sup> MEDIANE
75TH	1.7	15.5	39.75	11.3	0.	150.	10.8	27.0	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	03L	03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)					8(0)				ECHANTILLONS(IND.)
LOW					.24				MINIMUM
HIGH					.52				MAXIMUM
AVERAGE					.36				MOYENNE
STD.DEV.					.11				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					.26				25 <sup>e</sup>
MEDIAN 50TH					.35				50 <sup>e</sup> MEDIANE
75TH					.46				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0037** LAT. **56 D 58 M 1 S** LONG. **111 D 27 M 14 S**

UTM **12 472400 E 6313580 N**  
FEB 12, 1976 TO/A NOV 22, 1976

ATHABASCA RIVER ABOVE G.C.O.S. PLANT -  
AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	06101L CARBON DISSOLVED ORGANIC C	08102F OXYGEN DISSOLVED O2	08301L OXYGEN TOTAL COD O2	09105L FLUORIDE DISSOLVED F	16101L SULPHIDE DISSOLVED S	
SUBM ID	SIO2 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>2(0)</b>		<b>8(1)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>4.2</b>	<b>9.</b>	<b>20.</b>	<b>9.</b>	<b>10.0</b>		<b>L.05</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>9.6</b>	<b>18.</b>	<b>31.</b>	<b>12.</b>	<b>12.</b>		<b>.12</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>6.19</b>	<b>12.4</b>	<b>25.5</b>	<b>10.4</b>	<b>11.0</b>		<b>.07*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.70</b>	<b>2.8</b>	<b>4.7</b>	<b>1.3</b>	<b>1.4</b>		<b>.02*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>4.95</b>	<b>10.5</b>	<b>21.0</b>	<b>9.0</b>			<b>.05</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>6.10</b>	<b>12.0</b>	<b>25.5</b>	<b>10.5</b>	<b>11.0</b>		<b>.08</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>6.80</b>	<b>13.5</b>	<b>30.0</b>	<b>11.5</b>			<b>.09</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	02L						01L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>		<b>7(4)</b>	<b>7(1)</b>			<b>7(1)</b>	<b>2(2)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.0</b>	<b>L1.0</b>			<b>.001</b>	<b>L1.0</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>1.</b>	<b>15.</b>			<b>.012</b>	<b>L0.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.9*</b>	<b>9.6*</b>			<b>.006*</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.4*</b>	<b>4.3*</b>			<b>.004*</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L1.0</b>	<b>9.</b>			<b>.003</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L1.0</b>	<b>10.0</b>			<b>.005</b>	<b>L1.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>1.</b>	<b>12.</b>			<b>.008</b>			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE						33L 35L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	BE MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>8(8)</b>	<b>5(0)</b>	<b>8(0)</b>			<b>7(5)</b>		<b>8(8)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.005</b>	<b>.08</b>	<b>.03</b>			<b>L.001</b>		<b>L.015</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.005</b>	<b>.12</b>	<b>1.20</b>			<b>.004</b>		<b>L.015</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.10</b>	<b>.34</b>			<b>.0019*</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.02</b>	<b>.40</b>			<b>.0015*</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.005</b>	<b>.09</b>	<b>.04</b>			<b>L.001</b>		<b>L.015</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.005</b>	<b>.09</b>	<b>.22</b>			<b>L.001</b>		<b>L.015</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.005</b>	<b>.10</b>	<b>.47</b>			<b>.004</b>		<b>L.015</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE			02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0037 LAT. 56 D 58 M 1 S LONG. 111 D 27 M 14 S

UTM 12 472400 6313580 N  
FEB 12 1976 TO A NOV 22 1976

ATHABASCA RIVER ABOVE G.C.O.S. PLANT  
AOSERP

	25304L MANGANESE EXTRBL. MN MG/L	26304L IRON EXTRBL. FE MG/L	28102L COBALT EXTRBL. NI MG/L	29301L NICKEL EXTRBL. CU MG/L	30305L COPPER EXTRBL. ZIN MG/L	31104L ZINC EXTRBL. AS MG/L	34102L ARSENIC DISSOLVED SE MG/L	
SAMPLES(FLAGS)	8(0)	8(0)	7(4)	7(3)	8(1)	7(3)	5(5)	ECHANTILLONS(IND.)
LOW	.011	.32	L.002	L.002	L.001	L.001	L.0005	MINIMUM
HIGH	.15	3.0	.003	.008	.008	.010	.0006	MAXIMUM
AVERAGE	.053	1.03	.002*	.005*	.004*	.003*	.0005*	MOYENNE
STD.DEV.	.048	.92	.000*	.003*	.003*	.003*	.0000*	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	.016	.38	L.002	L.002	.002	L.001	L.0005	25 <sup>e</sup>
MEDIAN 50TH	.043	.72	L.002	.005	.004	.001	L.0005	50 <sup>e</sup> MEDIANE
75TH	.074	1.37	.003	.007	.007	.004	.0005	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE	01L	01L		01L	05L	01L	01L	CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
	SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L
SAMPLES(FLAGS)		8(0)	8(8)	3(3)	5(3)	7(5)	3(3)	8(0)	ECHANTILLONS(IND.)
LOW		.20	L.10	L.00	L.001	L.001	L.0	.1	MINIMUM
HIGH		.30	L.10	L.00	.001	.002	L.0	.1	MAXIMUM
AVERAGE		.24			.001*	.001*		.1	MOYENNE
STD.DEV.		.04			.000*	.000*		0	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.20	L.10		L.001	L.001		.1	25 <sup>e</sup>
MEDIAN 50TH		.24	L.10	L.00	L.001	L.001	L.0	.1	50 <sup>e</sup> MEDIANE
75TH		.28	L.10		.001	.001		.1	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L	02L			CODE DE SECOURS

	82301L LEAD EXTRBL. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO-100ML	36001L COLIFORMS TOTAL MPN NO-100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS NO-ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	8(4)					8(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	L.004					.2	129.	67.	MINIMUM
HIGH	.005					722.	195.	128.	MAXIMUM
AVERAGE	.004*					117.	150.	102.	MOYENNE
STD.DEV.	.000*					246	27.	25.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.004					6	131.	88	25 <sup>e</sup>
MEDIAN 50TH	.004*					33.	142.	104.	50 <sup>e</sup> MEDIANE
75TH	.004					67	155.	124.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0038 LAT. 56 D 56 M 21 S LONG. 111 D 26 M 34 S

UTM 12 473070E 6310490 N  
JUN 28, 1976 TO/À FEB 26, 1977ATHABASCA RIVER - SITE 4 - MILE 19 -  
AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	7(0)	6(0)	1(0)	7(0)		ECHANTILLONS(IND.)
LOW	150.	92.	72.6	15.	1.6	7.2	70.4		MINIMUM
HIGH	350.	205.	161.3	100.	218.	7.2	141.6		MAXIMUM
AVERAGE	255.	141.	112.0	38.	72.1		103.5		MOYENNE
STD.DEV.	80.	48.	38.7	28.	92.8		31.6		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	182.	100.	77.1	20.	3.2		72.0		25 <sup>e</sup>
MEDIAN 50TH	250.	114.	90.4	30.	27.4		92.2		50 <sup>e</sup> MEDIANE
75TH	330.	188.	151.8	35.	155.		141.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW	.4	5.0	19.5	5.8	0.	86.	2.9	5.8	MINIMUM
HIGH	2.1	17.5	44.5	12.2	0.	173.	14.8	31.5	MAXIMUM
AVERAGE	1.3	12.2	30.71	8.6	0.	126.	8.9	17.5	MOYENNE
STD.DEV.	.7	4.2	10.94	2.8	0.	39.	4.3	12.2	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.8	8.7	21.0	6.0	0.	88.	5.0	8.0	25 <sup>e</sup>
MEDIAN 50TH	1.1	13.1	25.0	7.0	0.	112.	9.2	9.0	50 <sup>e</sup> MEDIANE
75TH	2.0	15.5	42.5	11.2	0.	172.	12.8	31.5	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SAMPLES(FLAGS)	7(0)	7(2)		7(0)		7(3)	7(0)		ECHANTILLONS(IND.)
LOW	.54	L.01		.02		L.005	.03		MINIMUM
HIGH	3.74	.65		.86		.26	.43		MAXIMUM
AVERAGE	1.237	.136*		.174		.056*	.192		MOYENNE
STD.DEV.	1.139	.233*		.305		.094*	.166		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.59	L.01		.02		.005	.05		25 <sup>e</sup>
MEDIAN 50TH	.77	.05		.06		L.01	.12		50 <sup>e</sup> MEDIANE
75TH	1.30	.16		.13		.08	.41		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0038 LAT 56 D 56 M 21 S LONG. 111 D 26 M 34 S

UTM 12 473070E 6310490 N  
JUN 28 1976 TO A FEB 26 1977ATHABASCA RIVER - SITE 4 - MILE 19 -  
AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG L	C MG L	C MG L	C MG L	O2 MG L	O2 MG L	F MG L	MG L	
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	4(0)	1(0)	7(0)	7(0)	5(5)	ECHANTILLONS(IND.)
LOW	6.1	9.5	11.0	10.	13.4	28.	.07	L.0	MINIMUM
HIGH	7.8	22.	35.	14.0	13.4	154.	.15	L.0	MAXIMUM
AVERAGE	6.97	14.4	22.0	11.5		77.	.09		MOYENNE
STD.DEV.	.70	4.4	7.3	1.7		50.	.03		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	6.3	11.	19.5	10.5		30	.08	L.0	25 <sup>e</sup>
MEDIAN 50TH	6.8	13.	21.	11.0		65.	.08	L.0	50 <sup>e</sup> MEDIANE
75TH	7.8	17.0	26.5	12.5		137.	.09	L.0	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	36603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG L	MG L	CN MG/L	MG L	MG L	MG L	
SAMPLES(FLAGS)	7(0)	7(3)		5(5)	5(5)	7(4)	7(6)	7(7)	ECHANTILLONS(IND.)
LOW	.06	L.1.0		L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	1.65	14.0		L.005	L.01	.011	2.0	L.02	MAXIMUM
AVERAGE	.78	5.6*				.004*	.4*		MOYENNE
STD.DEV.	.53	5.7*				.005*	.7*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.50	L.1.0		L.001	L.01	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.70	2.0		L.001	L.01	L.001	L.1	L.02	50 <sup>e</sup> MEDIANE
75TH	1.25	11.5		L.001	L.01	.010	L.2	L.02	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL Ti	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXVALENT CR	24302L CHROMIUM EXTRBLE CR	
SUBM ID	MG L	MG L	MG L	MG L	MG L	MG L	MG L	MG L	
SAMPLES(FLAGS)		7(0)	7(2)		3(3)	4(3)	7(6)		ECHANTILLONS(IND.)
LOW		.02	L.01		L.001	L.001	L.003		MINIMUM
HIGH		.24	2.20		L.001	.012	.009		MAXIMUM
AVERAGE		.09	.61*			.0082*	.004*		MOYENNE
STD.DEV.		.07	.89*			.0049*	.002*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.07	.04			L.0055	L.003		25 <sup>e</sup>
MEDIAN 50TH		.08	.16		L.001	L.0100	L.003		50 <sup>e</sup> MEDIANE
75TH		.09	1.55			.0110*	L.003		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0038** LAT. **56 D 56M 21 S** LONG. **111 D 26M 34 S**

UTM **12 473070E 6310490 N**  
JUN 28, 1976 TO/A FEB 26, 1977

ATHABASCA RIVER - SITE 4 - MILE 19 -  
AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	7(0)	7(0)	7(5)	7(5)	7(0)	7(0)	7(5)	7(6)	ECHANTILLONS(IND.)
LOW	.012	.31	L.001	L.002	.001	.005	L.001	L.0005	MINIMUM
HIGH	.230	8.60	.005	.014	.035	.029	.010	L.0020	MAXIMUM
AVERAGE	.086	2.89	.003*	.005*	.010	.011	.0047*	.0010*	MOYENNE
STD.DEV.	.091	3.49	.001*	.005*	.012	.008	.0040*	.0007*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.014	.41	L.002	L.002	.004	.006	L.001	L.0005	25 <sup>e</sup>
MEDIAN 50TH	.049	.98	L.002	L.002	.005	.008	L.005	L.0005	50 <sup>e</sup> MEDIANE
75TH	.200	7.1	.004	.010	.012	.011	.010	L.0020	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					06L 05L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			6(6)		7(7)			7(5)	ECHANTILLONS(IND.)
LOW			L.01		L.001			L.0001	MINIMUM
HIGH			L.01		L.001			.0009	MAXIMUM
AVERAGE								.0003*	MOYENNE
STD.DEV.								.0003*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0002	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0002	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0004	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	7(4)	7(0)	1(0)	1(1)	1(1)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	G16.	G3000.	2.	110.	64.	MINIMUM
HIGH	.009	4.	0.	G16.	G3000.	314.	236.	216.	MAXIMUM
AVERAGE	.003*	3.				88.	165.	137.	MOYENNE
STD.DEV.	.003*	1.				119.	53.	61.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.				4.	112.	72.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.				31.	158.	132.	50 <sup>e</sup> MEDIANE
75TH	.002	4.				181.	212.	193.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79

ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0039 LAT. 57 D 1M 15 S LONG. 111 D 29M 49 S

UTM 12 469830E 6319600 N  
JUN 29 1976 TO/A FEB 26 1977

ATHABASCA RIVER AT OLD AOSERP DOCK  
MILEAGE = 26.3

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL. UNITS	JTU	PH-UNITS	CACO3 MG/L	PH-UNITS	
SAMPLES(FLAGS)	11(0)	11(0)	11(0)	11(0)	9(0)	3(0)	11(0)		ECHANTILLONS(IND.)
LOW	160.	103.	85.4	10.	1.8	8.0	82.0		MINIMUM
HIGH	360.	200.	155.1	40.	270.	8.4	134.0		MAXIMUM
AVERAGE	284.	156.	117.9	27.	63.1		107.9		MOYENNE
STD.DEV.	70.	37.	25.1	8.	106.6		21.0		ECART-TYPE
PERCNT:10TH	210.	115.	91.2	20.			88.2		10 <sup>e</sup> PERCNT
25TH	215.	120.	95.0	20.	2.5		88.2		25 <sup>e</sup>
MEDIAN 50TH	310.	169.	107.8	25.	3.2	8.2	102.0		50 <sup>e</sup> MEDIANE
75TH	350.	191.	143.5	35.	56.0		131.0		75 <sup>e</sup>
90TH	350.	197.	149.3	35.			133.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW	.5	5.0	23.0	6.8	0.	100.	2.2	11.6	MINIMUM
HIGH	2.1	23.0	42.5	11.9	0.	163.	26.4	33.6	MAXIMUM
AVERAGE	1.4	14.5	32.41	9.0	0.	132.	11.6	22.7	MOYENNE
STD.DEV.	.6	6.3	6.91	1.9	0.	26.	7.6	7.0	ECART-TYPE
PERCNT:10TH	.5	7.0	25.0	7.0	0.	108.	3.0	13.6	10 <sup>e</sup> PERCNT
25TH	.7	8.7	26.5	7.0	0.	108.	4.4	16.9	25 <sup>e</sup>
MEDIAN 50TH	1.5	17.5	30.0	8.6	0.	124.	12.9	22.4	50 <sup>e</sup> MEDIANE
75TH	2.0	19.5	39.0	11.2	0.	160.	16.0	28.5	75 <sup>e</sup>
90TH	2.0	19.5	41.0	11.4	0.	162.	17.0	30.3	90 <sup>e</sup>
SECONDARY CODE	02L	02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS ORTHOPHOSPHATE	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)	11(0)	11(2)		11(0)		11(9)	11(0)		ECHANTILLONS(IND.)
LOW	.38	L.01		.03		L.005	.03		MINIMUM
HIGH	3.19	.61		.97		.02	.197		MAXIMUM
AVERAGE	1.215	.170*		.173		.010*	.069		MOYENNE
STD.DEV.	.965	.225*		.267		.005*	.060		ECART-TYPE
PERCNT:10TH	.63	L.01		.055		L.005	.03		10 <sup>e</sup> PERCNT
25TH	.73	.02		.07		L.005	.03		25 <sup>e</sup>
MEDIAN 50TH	.80	.06		.10		L.01	.05		50 <sup>e</sup> MEDIANE
75TH	1.27	.20		.13		L.01	.062		75 <sup>e</sup>
90TH	3.04	.60		.14		.02	.180		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0039** LAT. **57 D 1M 15 S** LONG. **111 D 29M 49 S**UTM **12 469830 E 6319600 N**  
JUN 29, 1976 TO/A FEB 26, 1977ATHABASCA RIVER AT OLD AOSERP DOCK  
MILEAGE = 26.3

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>8(0)</b>	<b>3(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>7(7)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>4.5</b>	<b>7.</b>	<b>15.</b>	<b>7.</b>	<b>9.9</b>	<b>30.</b>	<b>.06</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>9.7</b>	<b>30.</b>	<b>80.</b>	<b>12.</b>	<b>13.6</b>	<b>97.</b>	<b>.16</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>6.83</b>	<b>12.8</b>	<b>28.3</b>	<b>8.5</b>	<b>12.3</b>	<b>55.</b>	<b>.09</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.61</b>	<b>6.9</b>	<b>18.1</b>	<b>1.5</b>	<b>2.1</b>	<b>23.</b>	<b>.03</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>5.0</b>	<b>8.</b>	<b>16.5</b>			<b>35.</b>	<b>.07</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>5.1</b>	<b>8.</b>	<b>18.0</b>	<b>8.0</b>		<b>40.</b>	<b>.07</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>7.1</b>	<b>10.5</b>	<b>24.5</b>	<b>8.0</b>	<b>13.4</b>	<b>44.</b>	<b>.08</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>8.0</b>	<b>18.0</b>	<b>28.</b>	<b>8.5</b>		<b>72.</b>	<b>.10</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>8.2</b>	<b>18.5</b>	<b>35.</b>			<b>91.</b>	<b>.16</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>11(0)</b>	<b>11(6)</b>		<b>7(5)</b>	<b>7(7)</b>	<b>11(8)</b>	<b>11(7)</b>	<b>11(11)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.06</b>	<b>L.1.0</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.95</b>	<b>40.</b>		<b>.013</b>	<b>L.01</b>	<b>.019</b>	<b>4.4</b>	<b>L.02</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.59</b>	<b>7.4*</b>		<b>.0049*</b>		<b>.004*</b>	<b>.7*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.26</b>	<b>12.1*</b>		<b>.0045*</b>		<b>.006*</b>	<b>1.3*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.40</b>	<b>L.1.0</b>				<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.45</b>	<b>L.1.0</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.50</b>	<b>L.1.0</b>		<b>L.005</b>	<b>L.01</b>	<b>L.001</b>	<b>L.2</b>	<b>L.02</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.85</b>	<b>14.</b>		<b>.008</b>	<b>L.01</b>	<b>.005</b>	<b>.9</b>	<b>L.02</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.90</b>	<b>16.0</b>				<b>.007</b>	<b>1.1</b>	<b>L.02</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>		<b>11(0)</b>	<b>11(0)</b>		<b>6(4)</b>	<b>5(5)</b>	<b>11(9)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.02</b>	<b>.04</b>		<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.14</b>	<b>1.60</b>		<b>.011</b>	<b>L.01</b>	<b>.008</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.08</b>	<b>.45</b>		<b>.004*</b>		<b>.004*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.04</b>	<b>.56</b>		<b>.005*</b>		<b>.002*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.02</b>	<b>.07</b>				<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.04</b>	<b>.07</b>		<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.08</b>	<b>.18</b>		<b>L.001</b>	<b>L.01</b>	<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.10</b>	<b>1.0</b>		<b>.010</b>	<b>L.01</b>	<b>L.003</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.12</b>	<b>1.25</b>				<b>.007</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79

ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0039 LAT. 57 D 1M 15 S LONG. 111 D 29M 49 S

UTM 12 469830E 6319600N

JUN 29 1976 TO/A FEB 26 1977

ATHABASCA RIVER AT OLD AOSERP DOCK

MILEAGE = 26.3

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34112L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	11(0)	11(0)	11(9)	11(7)	11(1)	11(0)	6(4)	7(7)	ECHANTILLONS(IND.)
LOW	.016	.43	L.002	L.002	L.001	.004	L.001	L.0005	MINIMUM
HIGH	.280	8.9	.004	.021	.016	.046	.006	L.0005	MAXIMUM
AVERAGE	.075	2.16	.002*	.005*	.006*	.015	.0025*		MOYENNE
STD.DEV.	.099	3.16	.001*	.006*	.005*	.014	.0023*		ECART-TYPE
PERCNT:10TH	.016	.44	L.002	L.002	.001	.006			10 <sup>e</sup> PERCNT
25TH	.018	.49	L.002	L.002	.003	.006	L.001	L.0005	25 <sup>e</sup>
MEDIAN 50TH	.030	.62	L.002	L.002	.005	.007	L.0010	L.0005	50 <sup>e</sup> MEDIANE
75TH	.07	2.20	L.002	.006	.009	.018	.005	L.0005	75 <sup>e</sup>
90TH	.265	8.0	.004	.012	.013	.039			90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			11(10)		11(11)			11(3)	ECHANTILLONS(IND.)
LOW			L.01		L.001			.0001	MINIMUM
HIGH			.02		L.001			.0013	MAXIMUM
AVERAGE			.01*					.0006*	MOYENNE
STD.DEV.			.00*					.0005*	ECART-TYPE
PERCNT:10TH			L.01		L.001			L.0002	10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0002	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			.0003	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0012	75 <sup>e</sup>
90TH			L.01		L.001			.0012	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO./ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	11(8)	11(0)	2(1)	2(1)	3(2)	11(0)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	9.	G3000.	3.	125.	80.	MINIMUM
HIGH	.048	4.	G16.	G16.	11000.	442.	238.	224.	MAXIMUM
AVERAGE	.008*	3.	8.*	13.*	5667.*	87.	181.	155.	MOYENNE
STD.DEV.	.014*	1.	11.*	5.*	4619.*	154.	46.	52.	ECART-TYPE
PERCNT:10TH	L.002	2.				3.	126.	105.	10 <sup>e</sup> PERCNT
25TH	L.002	2.				4.	132.	108.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	8.	13.	G3000.	6.	199.	179.	50 <sup>e</sup> MEDIANE
75TH	.006	4.				79.	225.	200.	75 <sup>e</sup>
90TH	.010	4.				339.	226.	203.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0040** LAT. **57 D 4 M 33 S** LONG. **111 D 31 M 59 S**

UTM **12 467690 E 6325740 N**

JUN 29, 1976 TO/A FEB 25, 1977

ATHABASCA RIVER - SITE 6 - MILEAGE

29.8 - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>6(0)</b>	<b>2(0)</b>	<b>7(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>190.</b>	<b>100.</b>	<b>75.9</b>	<b>10.</b>	<b>2.4</b>	<b>8.3</b>	<b>86.0</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>310.</b>	<b>178.</b>	<b>126.1</b>	<b>120.</b>	<b>675.</b>	<b>8.4</b>	<b>114.0</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>255.</b>	<b>140.</b>	<b>102.4</b>	<b>42.</b>	<b>159.7</b>		<b>98.4</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>55.</b>	<b>34.</b>	<b>19.2</b>	<b>35.</b>	<b>267.3</b>		<b>11.5</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>200.</b>	<b>101.</b>	<b>79.2</b>	<b>30.</b>	<b>3.9</b>		<b>86.6</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>250.</b>	<b>128.</b>	<b>107.0</b>	<b>35.</b>	<b>23.5</b>	<b>8.3</b>	<b>97.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>310.</b>	<b>173.</b>	<b>116.9</b>	<b>35.</b>	<b>230.</b>		<b>113.0</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.5</b>	<b>7.4</b>	<b>21.0</b>	<b>5.7</b>	<b>0.</b>	<b>105.</b>	<b>1.4</b>	<b>.2</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.7</b>	<b>22.0</b>	<b>34.0</b>	<b>10.0</b>	<b>0.</b>	<b>139.</b>	<b>23.5</b>	<b>26.9</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.3</b>	<b>14.2</b>	<b>28.00</b>	<b>7.9</b>	<b>0.</b>	<b>120.</b>	<b>12.5</b>	<b>16.9</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.5</b>	<b>7.3</b>	<b>5.22</b>	<b>1.6</b>	<b>0.</b>	<b>14.</b>	<b>9.3</b>	<b>9.0</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.8</b>	<b>7.5</b>	<b>21.0</b>	<b>6.5</b>	<b>0.</b>	<b>106.</b>	<b>5.5</b>	<b>11.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.5</b>	<b>9.5</b>	<b>30.0</b>	<b>7.8</b>	<b>0.</b>	<b>118.</b>	<b>8.2</b>	<b>17.8</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.6</b>	<b>22.0</b>	<b>31.5</b>	<b>9.3</b>	<b>0.</b>	<b>138.</b>	<b>22.0</b>	<b>24.3</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	<b>02L</b>	<b>02L</b>	<b>03L</b>				<b>03L</b>		CODE DE SECOURS

	07013L NITROGEN TOTAL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO P04	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>7(0)</b>	<b>7(2)</b>		<b>7(0)</b>		<b>7(3)</b>	<b>7(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.68</b>	<b>L.01</b>		<b>.04</b>		<b>L.005</b>	<b>.04</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>3.20</b>	<b>.60</b>		<b>.71</b>		<b>.03</b>	<b>1.85</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.433</b>	<b>.141*</b>		<b>.170</b>		<b>.016*</b>	<b>.339</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.111</b>	<b>.211*</b>		<b>.243</b>		<b>.011*</b>	<b>.668</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.68</b>	<b>L.01</b>		<b>.04</b>		<b>L.005</b>	<b>.04</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.82</b>	<b>.06</b>		<b>.06</b>		<b>.01</b>	<b>.07</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.89</b>	<b>.16</b>		<b>.16</b>		<b>.03</b>	<b>.192</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0040 LAT. 57 D 4 M 33 S LONG. 111 D 31 M 59 S

UTM 12 467690E 6325740 N  
JUN 29 1976 TO A FEB 25 1977ATHABASCA RIVER SITE 6 - MILEAGE  
29.8 - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	4(0)	2(0)	7(0)	7(0)	4(4)	ECHANTILLONS(IND.)
LOW	5.7	9.	18.0	9.	10.0	28.	.07	L.0	MINIMUM
HIGH	9.5	57.	26.	19.	12.8	267.	.16	L.0	MAXIMUM
AVERAGE	7.31	21.4	21.9	14.0	11.4	97.	.09		MOYENNE
STD.DEV.	1.75	16.7	2.5	5.8	2.0	98.	.03		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	5.9	10.0	21.	9.0		29.	.08	L.0	25 <sup>e</sup>
MEDIAN 50TH	6.2	15.0	21.0	14.0	11.4	43.	.09	L.0	50 <sup>e</sup> MEDIANE
75TH	9.2	24.	23.5	19.0		203.	.09	L.0	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	7(0)	7(3)		4(3)	5(5)	6(3)	6(4)	7(6)	ECHANTILLONS(IND.)
LOW	.07	L.1.0		L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	2.60	11.5		L.005	L.01	.009	.9	.04	MAXIMUM
AVERAGE	.86	5.0*		.0025*		.003*	.3*	.02*	MOYENNE
STD.DEV.	.82	4.6*		.0019*		.003*	.3*	.01*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.45	L.1.0		L.0010	L.01	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.65	2.5		.0020*	L.01	.001*	L.1	L.02	50 <sup>e</sup> MEDIANE
75TH	1.00	9.0		.0040*	L.01	.004	.4	L.02	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		7(0)	7(0)		3(3)	4(3)	7(5)		ECHANTILLONS(IND.)
LOW		.04	.04		L.001	L.001	L.003		MINIMUM
HIGH		1.51	10.6		L.001	L.01	.018		MAXIMUM
AVERAGE		.30	1.86			.0060*	.006*		MOYENNE
STD.DEV.		.54	3.88			.0047*	.006*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.04	.06			.0020*	L.003		25 <sup>e</sup>
MEDIAN 50TH		.09	.27		L.001	.0065*	L.003		50 <sup>e</sup> MEDIANE
75TH		.20	1.25			L.0100	.006		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0040** LAT. **57 D 4 M 33 S** LONG. **111 D 31 M 59 S**UTM **12 467690 E 6325740 N**  
JUN 29, 1976 TO/A FEB 25, 1977

## ATHABASCA RIVER - SITE 6 - MILEAGE

29.8 - AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	7(0)	7(0)	7(5)	7(3)	7(1)	7(0)	5(2)	4(3)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.012	.36	L.002	L.002	L.001	.004	L.001	L.0005	<b>MINIMUM</b>
<b>HIGH</b>	1.70	63.0	.043	.071	.093	.331	.015	.006	<b>MAXIMUM</b>
<b>AVERAGE</b>	.299	10.80	.008*	.015*	.026*	.065	.0058*	.0019*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.625	23.19	.015*	.025*	.035*	.118	.0059*	.0028*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.015	.56	L.002	L.002	.005	.008	L.001	L.0005	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.03	.85	L.002	.004	.007	.021	.004	L.0005	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.275	8.2	.004	.017	.059	.040	.008	.0032*	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE					06L 05L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			7(6)		7(6)			7(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			L.01		L.001			L.0002	<b>MINIMUM</b>
<b>HIGH</b>			.01		.001			.0009	<b>MAXIMUM</b>
<b>AVERAGE</b>			.01*		.001*			.0003*	<b>MOYENNE</b>
<b>STD.DEV.</b>			.00*		.000*			.0003*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			L.01		L.001			L.0002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			L.01		L.001			L.0002	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			L.01		L.001			.0003	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	7(3)	6(0)	1(0)	1(0)	1(1)	7(0)	7(0)	7(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.002	2.	5.	16.	G3000.	4.	110.	60.	<b>MINIMUM</b>
<b>HIGH</b>	.019	4.	5.	16.	G3000.	2602.	195.	180.	<b>MAXIMUM</b>
<b>AVERAGE</b>	.006*	3.				435.	157.	126.	<b>MOYENNE</b>
<b>STD.DEV.</b>	.006*	1.				963.	37.	53.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.002	2.				4.	121.	64.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.003	2.				36.	155.	122.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.009	4.				330.	193.	178.	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0041 LAT. 57 D 7 M 49 S LONG. 111 D 36 M 18 S

UTM 12 463380E 6331830 N  
MAY 15 1976 TO/A FEB 25 1977ATHABASCA RIVER UPSTREAM FROM THE  
CONFLUENCE WITH THE MUSKIE RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL CACO3	00216L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG L	MG L	REL UNITS	JTU	PH UNITS	MG L	PH UNITS	
SAMPLES(FLAGS)	7(0)	7(0)	7(2)	7(0)	6(0)	2(0)	7(0)		ECHANTILLONS(IND.)
LOW	186.	104.	84.2	20.	1.4	8.0	90.0		MINIMUM
HIGH	330.	180.	129.4	50.	270.	8.4	124.0		MAXIMUM
AVERAGE	267.	141.	108.5*	31.	61.9		100.8		MOYENNE
STD.DEV.	50.	27.	15.4*	12.	103.4		12.1		ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH	236.	124.	100.8	20.	2.1		90.3		25 <sup>e</sup>
MEDIAN 50TH	253.	134.	104.5	25.	25.0	8.2	95.3		50 <sup>e</sup> MEDIANE
75TH	310.	175.	120.7	40.	48.0		106.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K	11101L SODIUM DISSOLVED NA	20101L CALCIUM DISSOLVED CA	12102L MAGNESIUM DISSOLVED MG	06301L CARBONATE (CALCD.) CO3	06201L BICARBONT. (CALCD.) HCO3	17201L CHLORIDE DISSOLVED CL	16306L SULPHATE DISSOLVED S04	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW	.5	5.5	23.0	6.5	0.	110.	2.7	7.7	MINIMUM
HIGH	1.9	21.0	36.0	9.6	0.	151.	22.0	32.8	MAXIMUM
AVERAGE	1.3	12.1	30.33	8.0	0.	123.	9.5	20.2	MOYENNE
STD.DEV.	.5	6.1	4.30	1.3	0.	15.	7.5	7.7	ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH	.8	7.0	28.5	6.8	0.	110.	3.2	16.0	25 <sup>e</sup>
MEDIAN 50TH	1.4	9.7	29.2	7.8	0.	116.	5.5	21.	50 <sup>e</sup> MEDIANE
75TH	1.6	20.0	34.1	9.6	0.	129.	17.3	24.7	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N	07110L NITROGEN DISSOLVED NO3 & NO2 N	07206L NITROGEN DISSOLVED NITRITE N	07555L NITROGEN DISSOLVED AMMONIA N	07651L NITROGEN DISSOLVED N	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P	15406L PHOSPHORUS TOTAL P	15407L PHOSPHATE TOTAL P04	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG L	
SAMPLES(FLAGS)	5(0)	5(2)		5(0)	2(0)	5(3)	6(1)		ECHANTILLONS(IND.)
LOW	.72	L.01		.055	.26	L.005	L.005		MINIMUM
HIGH	2.75	.60		.74	.27	.17	.23		MAXIMUM
AVERAGE	1.312	.168*		.239	.27	.064*	.071*		MOYENNE
STD.DEV.	.853	.250*		.282	.01	.080*	.083*		ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH	.82	L.01		.12		L.005	.02		25 <sup>e</sup>
MEDIAN 50TH	.83	.05		.14	.27	L.01	.043		50 <sup>e</sup> MEDIANE
75TH	1.44	.17		.14		.13	.086		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0041 LAT. 57 D 7 M 49 S LONG. 111 D 36 M 18 S

UTM 12 463380 E 6331830 N  
MAY 15, 1976 TO/A DEC 19, 1977ATHABASCA RIVER UPSTREAM FROM THE  
CONFLUENCE WITH THE MUSKEG RIVER

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	5(0)		6(0)	7(0)	3(3)	ECHANTILLONS(IND.)
LOW	4.6	7.	13.0	7.		24.	.07	L.0	MINIMUM
HIGH	8.7	14.5	24.	12.0		43.	.10	L.0	MAXIMUM
AVERAGE	6.14	11.3	20.3	9.4		36.	.08		MOYENNE
STD.DEV.	1.52	2.7	4.2	1.8		7.	.01		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	5.0	9.	16.	9.		30.	.07		25 <sup>e</sup>
MEDIAN 50TH	5.7	11.0	22.	9.		38.	.08	L.0	50 <sup>e</sup> MEDIANE
75TH	7.8	14.5	23.5	10.		40.	.08		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	5(0)	7(2)	1(0)	3(3)	3(3)	6(2)	5(5)	5(5)	ECHANTILLONS(IND.)
LOW	.06	L1.0	10.	L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	.75	10.0	10.	L.005	L.01	.009	L.2	L.02	MAXIMUM
AVERAGE	.50	3.9*				.005*			MOYENNE
STD.DEV.	.28	3.3*				.004*			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.45	L1.0				L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.50	3.		L.001	L.01	.004	L.1	L.02	50 <sup>e</sup> MEDIANE
75TH	.75	7.0				.009	L.1	L.02	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE						35L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	MG/L	
SAMPLES(FLAGS)	2(2)	7(0)	7(1)		2(1)	4(2)	5(3)	2(2)	ECHANTILLONS(IND.)
LOW	L.005	.06	L.01		L.001	.001	L.003	L.015	MINIMUM
HIGH	L.005	.18	1.25		.003	L.01	.086	L.015	MAXIMUM
AVERAGE		.09	.39*		.002*	.0055*	.020*		MOYENNE
STD.DEV.		.04	.41*		.001*	.0052*	.037*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.06	.13			.0010	L.003		25 <sup>e</sup>
MEDIAN 50TH	L.005	.09	.29		.002*	.0055*	L.003	L.015	50 <sup>e</sup> MEDIANE
75TH		.10	.40			L.0100	.006		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02L		02L	02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79

ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0041 LAT 57 D 7M 49 S LONG. 111 D 36M 18 S

UTM 12 463380E 6331830N  
MAY 15 1976 TO A DEC 19 1977

ATHABASCA RIVER UPSTREAM FROM THE  
CONFLUENCE WITH THE MUSKEG RIVER

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	30305L ARSENIC DISSOLVED	30305L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	7(0)	7(0)	7(5)	7(2)	7(0)	7(0)	5(3)	5(4)	ECHANTILLONS(IND.)
LOW	.020	.45	L.002	L.002	.003	.004	L.0005	L.0005	MINIMUM
HIGH	.46	9.85	.035	.130	.046	.046	.0038	.0034	MAXIMUM
AVERAGE	.133	3.23	.007*	.026*	.013	.020	.0018*	.0011*	MOYENNE
STD.DEV.	.168	4.06	.012*	.047*	.015	.019	.0015*	.0013*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.021	.61	L.002	L.002	.004	.006	L.0005	L.0005	25 <sup>e</sup>
MEDIAN 50TH	.055	1.14	L.002	.005	.005	.009	L.001	L.0005	50 <sup>e</sup> MEDIANE
75TH	.265	8.4	.005	.021	.015	.046	.003	L.0005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					06L 05L	04L			CODE DE SECONDAIRES

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	56301L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	2(0)	2(2)	5(5)	2(2)	7(7)		2(0)	5(3)	ECHANTILLONS(IND.)
LOW	.20	L.10	L.01	L.001	L.001		.1	L.0002	MINIMUM
HIGH	.22	L.10	L.01	L.001	L.001		.1	.0011	MAXIMUM
AVERAGE	.21						.1	.0004*	MOYENNE
STD.DEV.	.01						0	.0004*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0002	25 <sup>e</sup>
MEDIAN 50TH	.21	L.10	L.01	L.001	L.001		.1	L.0002	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECONDAIRES

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10451L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	BACT DENS NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	6(3)	5(0)				7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW	L.002	2.				3.	124.	48.	MINIMUM
HIGH	.011	4.				417.	216.	188.	MAXIMUM
AVERAGE	.004*	3.				94.	158.	116.	MOYENNE
STD.DEV.	.004*	1.				146.	36.	54.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.				4.	126	35	25 <sup>e</sup>
MEDIAN 50TH	.002*	4.				46.	152.	112.	50 <sup>e</sup> MEDIANE
75TH	.004	4.				85.	198	181	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECONDAIRES

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0042** LAT. **57 D 11 M 16 S** LONG. **111 D 37 M 26 S**UTM **12 462300E 6338250 N**  
FEB 10, 1976 TO/A OCT 16, 1979ATHABASCA RIVER AT FORT MACKAY  
- AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	34(0)	34(0)	34(3)	17(0)	34(0)	22(0)	34(0)	6(0)	ECHANTILLONS(IND.)
LOW	130.	91.	73.8	10.	.8	6.7	71.0	-.4	MINIMUM
HIGH	422.	250.	192.8	130.	320.0	8.8	177.0	.3	MAXIMUM
AVERAGE	269.	157.	120.9*	42.	48.2		112.4		MOYENNE
STD.DEV.	78.	45.	28.5*	30.	69.4		26.8		ECART-TYPE
PERCNT:10TH	182.	106.	89.7	15.	3.5	7.2	83.0		10 <sup>e</sup> PERCNT
25TH	200.	121.	99.6	20.	5.0	7.6	92.4	-.3	25 <sup>e</sup>
MEDIAN 50TH	258.	145.	118.6	30.	18.8	8.1	107.9	-.2	50 <sup>e</sup> MEDIANE
75TH	340.	195.	139.8	50.	65.5	8.4	130.	-.1	75 <sup>e</sup>
90TH	359.	213.	153.0	80.	135.0	8.5	151.8		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	34(0)	34(0)	34(0)	34(0)	34(17)	34(17)	34(0)	34(0)	ECHANTILLONS(IND.)
LOW	.6	4.9	20.00	5.5	0.	87.	1.4	10.0	MINIMUM
HIGH	4.0	39.5	52.5	15.0	Q0.	216.	31.0	50.0	MAXIMUM
AVERAGE	1.4	14.2	32.69	9.5	0.*	137.*	9.3	22.3	MOYENNE
STD.DEV.	.8	7.7	7.43	2.6	0.*	33.*	8.1	9.8	ECART-TYPE
PERCNT:10TH	.7	6.1	25.00	6.6	0.	Q101.	2.0	11.	10 <sup>e</sup> PERCNT
25TH	.9	7.7	27.5	7.2	0.	113.	2.5	14.5	25 <sup>e</sup>
MEDIAN 50TH	1.3	12.1	32.50	9.3	0.	131.	5.8	20.1	50 <sup>e</sup> MEDIANE
75TH	1.6	20.0	38.0	11.7	Q0.	158.	14.5	29.0	75 <sup>e</sup>
90TH	1.7	23.5	40.50	13.7	Q0.	Q185.	23.	34.5	90 <sup>e</sup>
SECONDARY CODE	03L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SAMPLES(FLAGS)	28(0)	28(0)	17(1)	26(1)	6(0)	28(1)	28(0)		ECHANTILLONS(IND.)
LOW	.26	.004	L.003	.007	.28	L.003	.007		MINIMUM
HIGH	2.00	.49	.023	.500	.61	.056	1.05		MAXIMUM
AVERAGE	.898	.102	.008*	.084*	.44	.016*	.100		MOYENNE
STD.DEV.	.458	.112	.006*	.091*	.13	.015*	.195		ECART-TYPE
PERCNT:10TH	.44	.008	.003	.026		.004	.017		10 <sup>e</sup> PERCNT
25TH	.535	.015	.003	.040	.3	.006	.028		25 <sup>e</sup>
MEDIAN 50TH	.785	.075	.008	.070	.47	.011	.043		50 <sup>e</sup> MEDIANE
75TH	1.180	.129	.010	.09	.51	.021	.085		75 <sup>e</sup>
90TH	1.60	.250	.020	.120		.044	.195		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0042 LAT. 57 D 11M 16 S LONG. 111 D 37M 26 S

UTM 12 462300E 6338250N

FEB 10 1976 TO/A OCT 16 1979

## ATHABASCA RIVER AT FORT MACKAY

AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	34(0)	34(0)	30(0)	34(0)	21(0)	28(0)	30(5)	17(16)	ECHANTILLONS(IND.)
LOW	3.30	1.5	11.5	1.5	6.8	11.	L.05	L.0	MINIMUM
HIGH	9.50	63.0	34.5	61.5	100.	278.	.15	.0	MAXIMUM
AVERAGE	6.08	14.9	24.6	13.3	14.1	61.	.09*	.0*	MOYENNE
STD.DEV.	1.68	11.4	7.0	10.4	19.8	53.	.03*	.0*	ECART-TYPE
PERCNT:10TH	4.2	6.0	15.5	6.0	7.5	14.	L.05	L.0	10 <sup>e</sup> PERCNT
25TH	4.90	9.	19.	9.	8.6	27.	.05	L.0	25 <sup>e</sup>
MEDIAN 50TH	5.75	12.0	26.0	11.0	9.4	44.	.09	L.0	50 <sup>e</sup> MEDIANE
75TH	7.4	16.0	31.5	15.5	11.8	86.	.11	L.0	75 <sup>e</sup>
90TH	9.0	27.	32.3	21.5	12.2	101.	.12	L.0	90 <sup>e</sup>
SECONDARY CODE	02L						07L 01L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	23(0)	34(23)	23(0)	5(2)	7(5)	27(17)	24(1)	23(1)	ECHANTILLONS(IND.)
LOW	.1	L.0	2.	L.001	L.001	L.001	.1	L.02	MINIMUM
HIGH	3.1	2.	40.	.013	.002	.022	2.6	.80	MAXIMUM
AVERAGE	.84	1.1*	11.7	.0044*	.002*	.004*	1.0*	.17*	MOYENNE
STD.DEV.	.69	.3*	9.4	.0050*	.001*	.005*	.6*	.15*	ECART-TYPE
PERCNT:10TH	.3	L.0	3.			L.001	.3	.07	10 <sup>e</sup> PERCNT
25TH	.4	L1.0	5.	L.001	L.001	L.001	.5	.10	25 <sup>e</sup>
MEDIAN 50TH	.6	L1.0	10.	.003	L.002	L.001	.9*	.14	50 <sup>e</sup> MEDIANE
75TH	1.1	1.	15.	.004	L.002	.004	1.3	.18	75 <sup>e</sup>
90TH	1.6	2.	24.			.010	1.8	.27	90 <sup>e</sup>
SECONDARY CODE						33L 35L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)	23(23)	30(1)	33(0)	21(20)	27(17)	6(5)	27(15)	6(6)	ECHANTILLONS(IND.)
LOW	L.001	L.01	.02	L.01	L.001	L.001	L.003	L.015	MINIMUM
HIGH	L.005	.23	14.70	L.05	.005	.002	.014	L.015	MAXIMUM
AVERAGE		.08*	.91	.022*	.002*	.0012*	.005*		MOYENNE
STD.DEV.		.06*	2.57	.018*	.001*	.0004*	.003*		ECART-TYPE
PERCNT:10TH	L.001	.02	.04	L.01	L.001		L.003		10 <sup>e</sup> PERCNT
25TH	L.001	.03	.04	L.01	L.001	L.001	L.003	L.015	25 <sup>e</sup>
MEDIAN 50TH	L.001	.06	.18	L.01	L.001	L.0010	L.003	L.015	50 <sup>e</sup> MEDIANE
75TH	L.005	.10	.76	L.05	.003	L.001	.006	L.015	75 <sup>e</sup>
90TH	L.005	.16	1.3	L.05	.004		.010		90 <sup>e</sup>
SECONDARY CODE	02L	06L	02L		02L	02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0042** LAT. **57 D 11M 16 S** LONG. **111 D 37M 26 S**

UTM **12 462300E 6338250 N**  
FEB 10, 1976 TO/À OCT 16, 1979

ATHABASCA RIVER AT FORT MACKAY  
- AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	33(0)	33(0)	33(24)	33(19)	32(1)	31(4)	31(6)	30(22)	<b>ECHANTILLONS(IND.)</b>
LOW	.010	.31	L.001	L.001	L.001	L.001	L.0002	L.0002	<b>MINIMUM</b>
HIGH	.281	4.70	.004	.015	.026	.110	.0097	.0009	<b>MAXIMUM</b>
AVERAGE	.063	1.27	.002*	.003*	.005*	.019*	.0013*	.0003*	<b>MOYENNE</b>
STD.DEV.	.065	1.19	.001*	.003*	.005*	.023*	.0020*	.0002*	<b>ECART-TYPE</b>
PERCNT:10TH	.013	.35	L.001	L.001	.002	L.001	L.0002	L.0002	<b>10<sup>e</sup> PERCNT</b>
25TH	.018	.43	L.001	L.001	.002	.004	.0004	L.0002	<b>25<sup>e</sup></b>
MEDIAN 50TH	.037	.82	L.002	L.002	.003	.012	.0005	L.0002	<b>50<sup>e</sup> MEDIANE</b>
75TH	.080	1.45	L.002	.005	.007	.021	.0011	.0004	<b>75<sup>e</sup></b>
90TH	.147	2.68	.002	.007	.008	.040	.0028	.0007	<b>90<sup>e</sup></b>
SECONDARY CODE	01L	01L	01L	01L	05L	01L	01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>	5(0)	6(6)	3(3)	3(2)	32(30)	3(3)	6(3)	27(23)	<b>ECHANTILLONS(IND.)</b>
LOW	.17	L.10	L.00	L.001	L.001	L.0	L.1	L.0001	<b>MINIMUM</b>
HIGH	.24	L.10	L.00	.001	.001	L.0	.1	.048	<b>MAXIMUM</b>
AVERAGE	.22			.001*	.001*		.1*	.0019*	<b>MOYENNE</b>
STD.DEV.	.03			.000*	.000*		.0*	.0092*	<b>ECART-TYPE</b>
PERCNT:10TH					L.001			L.0001	<b>10<sup>e</sup> PERCNT</b>
25TH	.20	L.10			L.001		L.1	L.0001	<b>25<sup>e</sup></b>
MEDIAN 50TH	.24	L.10	L.00	L.001	L.001	L.0	.0*	L.0001	<b>50<sup>e</sup> MEDIANE</b>
75TH	.24	L.10			L.001		.1	L.0001	<b>75<sup>e</sup></b>
90TH					L.001			.0002	<b>90<sup>e</sup></b>
SECONDARY CODE				02L	02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	BACT.DENS. NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	33(23)	28(0)	17(0)	17(1)	17(3)	34(0)	31(0)	30(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.002	2.	0.	0.	750.	1.	86.	65.	<b>MINIMUM</b>
HIGH	.310	8.	240.	540.	00000.	584.	264.	241.	<b>MAXIMUM</b>
AVERAGE	.013*	3.	76.	222.*	20712.*	70.	168.	128.	<b>MOYENNE</b>
STD.DEV.	.053*	2.	84.	190.*	28239.*	115.	50.	46.	<b>ECART-TYPE</b>
PERCNT:10TH	L.002	2.	7.	33.	850.	3.	114.	77.	<b>10<sup>e</sup> PERCNT</b>
25TH	L.002	2.	17.	120.	G3000.	4.	127.	93.	<b>25<sup>e</sup></b>
MEDIAN 50TH	L.002	2.	49.	G146.	10000.	25.	156.	118.	<b>50<sup>e</sup> MEDIANE</b>
75TH	.004	4.	130.	240.	24000.	106.	210.	158.	<b>75<sup>e</sup></b>
90TH	.008	8.	240.	540.	70000.	180.	231.	199.	<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

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## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0043 LAT. 57 D 21M 56 S LONG. 111 D 39M 43 S

UTM 12 460190E 6358060N  
JUN 30 1976 TO A FEB 25 1977ATHABASCA RIVER BELOW CONFLUENCE WITH  
THE TAR RIVER - MILE 52.4 - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	7(0)	6(0)	1(0)	7(0)		ECHANTILLONS(IND.)
LOW	175.	102.	86.7	15.	1.8	8.5	77.6		MINIMUM
HIGH	350.	202.	143.5	50.	218.	8.5	120.4		MAXIMUM
AVERAGE	262.	144.	109.4	29.	84.2		99.1		MOYENNE
STD.DEV.	74.	42.	22.5	13.	105.8		18.0		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	188.	108.	92.5	20.	3.3		83.0		25 <sup>e</sup>
MEDIAN 50TH	250.	117.	95.4	25.	32.1		92.7		50 <sup>e</sup> MEDIANE
75TH	330.	185.	128.6	40.	218.		120.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW	.5	6.4	23.5	6.7	0.	95.	4.4	4.0	MINIMUM
HIGH	1.9	22.0	39.0	11.2	0.	147.	22.0	34.7	MAXIMUM
AVERAGE	1.3	14.1	30.07	8.3	0.	121.	12.2	19.0	MOYENNE
STD.DEV.	.5	7.2	6.07	1.8	0.	22.	8.3	9.9	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.8	7.5	26.0	6.8	0.	101.	4.9	12.0	25 <sup>e</sup>
MEDIAN 50TH	1.3	10.5	26.0	7.4	0.	113.	7.9	19.6	50 <sup>e</sup> MEDIANE
75TH	1.8	22.0	35.0	10.0	0.	146.	20.8	25.3	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L	02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	7(0)	7(3)		7(0)		7(3)	7(0)		ECHANTILLONS(IND.)
LOW	.51	L.001		.01		L.005	.02		MINIMUM
HIGH	2.75	.59		.13		.07	.67		MAXIMUM
AVERAGE	1.049	.122*		.070		.021*	.181		MOYENNE
STD.DEV.	.805	.215*		.044		.022*	.236		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.59	L.001		.02		L.01	.03		25 <sup>e</sup>
MEDIAN 50TH	.70	.04		.08		.01	.05		50 <sup>e</sup> MEDIANE
75TH	1.40	.17		.11		.02	.29		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0043** LAT. **57 D 21 M 56 S** LONG. **111 D 39 M 43 S**UTM **12 460190 E 6358060 N**  
JUN 30, 1976 TO/A FEB 25, 1977ATHABASCA RIVER BELOW CONFLUENCE WITH  
THE TAR RIVER - MILE 52.4 - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>4(0)</b>		<b>7(0)</b>	<b>7(0)</b>	<b>5(5)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>4.6</b>	<b>5.</b>	<b>15.5</b>	<b>5.</b>		<b>25.</b>	<b>.06</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>8.2</b>	<b>23.</b>	<b>33.</b>	<b>10.5</b>		<b>79.</b>	<b>.16</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>6.90</b>	<b>11.8</b>	<b>21.4</b>	<b>7.4</b>		<b>54.</b>	<b>.09</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.38</b>	<b>7.0</b>	<b>5.8</b>	<b>2.4</b>		<b>19.</b>	<b>.03</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>5.7</b>	<b>7.</b>	<b>18.</b>	<b>5.5</b>		<b>33.</b>	<b>.07</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>7.0</b>	<b>9.</b>	<b>19.</b>	<b>7.0</b>		<b>55.</b>	<b>.08</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>8.2</b>	<b>20.0</b>	<b>23.5</b>	<b>9.3</b>		<b>69.</b>	<b>.09</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
<b>SAMPLES(FLAGS)</b>	<b>7(0)</b>	<b>7(3)</b>		<b>5(4)</b>	<b>5(5)</b>	<b>7(4)</b>	<b>7(5)</b>	<b>7(7)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.40</b>	<b>L.1.0</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.55</b>	<b>22.0</b>		<b>.008</b>	<b>L.01</b>	<b>.007</b>	<b>.4</b>	<b>L.02</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.78</b>	<b>5.1*</b>		<b>.0032*</b>		<b>.003*</b>	<b>.2*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.40</b>	<b>7.6*</b>		<b>.0032*</b>		<b>.002*</b>	<b>.1*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.40</b>	<b>L.1.0</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.70</b>	<b>2.0</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.00</b>	<b>6.0</b>		<b>L.005</b>	<b>L.01</b>	<b>.005</b>	<b>L.2</b>	<b>L.02</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		<b>7(0)</b>	<b>7(1)</b>		<b>3(2)</b>	<b>4(4)</b>	<b>7(4)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.01</b>	<b>L.01</b>		<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.14</b>	<b>2.40</b>		<b>.002</b>	<b>L.01</b>	<b>.006</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.08</b>	<b>.84*</b>		<b>.001*</b>		<b>.004*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.04</b>	<b>.97*</b>		<b>.001*</b>		<b>.001*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.06</b>	<b>.05</b>			<b>L.0010</b>	<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.08</b>	<b>.29</b>		<b>L.001</b>	<b>L.0010</b>	<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.13</b>	<b>1.75</b>			<b>L.0055</b>	<b>.005</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE				02L	02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0043 LAT. 57 D 21M 56 S LONG. 111 D 39M 43 S

UTM 12 460190 6358060 N

JUN 30 1976 TO-A FEB 25 1977

ATHABASCA RIVER BELOW CONFLUENCE WITH  
THE TAR RIVER - MILE 52.4 - AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED AS	34102L SELENIUM DISSOLVED SE	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	7(0)	7(0)	7(5)	7(3)	7(0)	7(0)	3(1)	3(2)	ECHANTILLONS(IND.)
LOW	.014	.38	L.002	L.001	.003	.011	L.001	L.0005	MINIMUM
HIGH	.265	8.0	.004	.019	.077	.098	.005	.0007	MAXIMUM
AVERAGE	.090	2.98	.002*	.007*	.017	.033	.0025*	.0006*	MOYENNE
STD.DEV.	.099	3.42	.001*	.006*	.027	.030	.0022*	.0001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.016	.50	L.002	L.002	.003	.013			25 <sup>e</sup>
MEDIAN 50TH	.043	1.00	L.002	.005	.006	.023	.0015	L.0005	50 <sup>e</sup> MEDIANE
75TH	.190	7.80	.002	.010	.013	.038			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					06L 05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED CD	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL HG	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	MG/L	
SAMPLES(FLAGS)			7(6)		7(6)			7(5)	ECHANTILLONS(IND.)
LOW			L.01		L.001			L.0001	MINIMUM
HIGH			.02		.001			.0015	MAXIMUM
AVERAGE			.01*		.001*			.0004*	MOYENNE
STD.DEV.			.00*		.000*			.0005*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0002	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0002	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0004	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO/ML	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	7(4)	7(0)				7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW	L.002	2.				3.	107.	84.	MINIMUM
HIGH	.016	4.				330.	238.	206.	MAXIMUM
AVERAGE	.006*	3.				108.	164.	139.	MOYENNE
STD.DEV.	.006*	1				149	55.	57.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.				5	114.	88.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.				32.	140.	108.	50 <sup>e</sup> MEDIANE
75TH	.012	4.				317	217.	200.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0044** LAT. **57 D 44 M 23 S** LONG. **111 D 21 M 58 S**UTM **12 478210E 6399580 N**  
FEB 11, 1976 TO/A FEB 25, 1977ATHABASCA RIVER - ABOVE THE FIREBAG  
RIVER - MILE 82.4 - AOSERP

	02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>11(3)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>6(0)</b>	<b>11(0)</b>	<b>6(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	170.	103.	85.9	10.	2.1	6.9	76.0	-.4	MINIMUM
HIGH	390.	211.	139.2	70.	230.	8.2	121.6	-.1	MAXIMUM
AVERAGE	292.	161.	116.7*	28.	56.3		103.7		MOYENNE
STD.DEV.	80.	40.	18.9*	18.	82.3		15.9		ECART-TYPE
PERCNT:10TH	196.	120.	92.5	10.	3.9		84.8		10 <sup>e</sup> PERCNT
25TH	244.	123.	103.3	10.	6.1	6.9	94.9	-.3	25 <sup>e</sup>
MEDIAN 50TH	250.	142.	Q110.4	25.	27.	7.1	99.6	-.3	50 <sup>e</sup> MEDIANE
75TH	367.	199.	137.1	40.	70.0	7.9	119.	-.2	75 <sup>e</sup>
90TH	380.	200.	138.9	40.	205.		120.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>11(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	.8	8.0	23.5	6.6	0.	93.	5.5	7.7	MINIMUM
HIGH	1.9	30.0	38.1	10.7	0.	148.	35.7	27.0	MAXIMUM
AVERAGE	1.5	18.2	32.27	8.7	0.	126.	17.2	20.6	MOYENNE
STD.DEV.	.3	8.6	5.02	1.6	0.	19.	10.9	6.2	ECART-TYPE
PERCNT:10TH	1.1	8.5	26.0	6.7	0.	103.	5.7	11.5	10 <sup>e</sup> PERCNT
25TH	1.2	9.5	29.0	7.5	0.	116.	7.4	19.	25 <sup>e</sup>
MEDIAN 50TH	1.6	14.	31.0	8.0	0.	121.	11.4	23.0	50 <sup>e</sup> MEDIANE
75TH	1.7	25.5	37.6	10.5	0.	145.	27.	25.	75 <sup>e</sup>
90TH	1.8	28.5	38.0	10.7	0.	146.	28.6	26.	90 <sup>e</sup>
SECONDARY CODE	02L	02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>5(0)</b>	<b>5(2)</b>		<b>5(0)</b>	<b>6(0)</b>	<b>5(1)</b>	<b>5(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	.61	L.01		.03	.3	L.01	.03		MINIMUM
HIGH	2.89	.60		.12	.51	.02	.36		MAXIMUM
AVERAGE	1.396	.176*		.059	.38	.012*	.151		MOYENNE
STD.DEV.	.888	.253*		.035	.09	.004*	.148		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.88	L.01		.04	.3	.01	.04		25 <sup>e</sup>
MEDIAN 50TH	1.20	.04		.05	.37	.01	.07		50 <sup>e</sup> MEDIANE
75TH	1.40	.22		.055	.46	.010	.254		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0044 LAT. 57 D 44 M 23 S LONG. 111 D 21 M 58 S

UTM 12 478210E 6399580 N  
FEB 11, 1976 TO: A FEB 25, 1977

ATHABASCA RIVER ABOVE THE FIREBAG  
RIVER MILE 82.4 AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	11(0)	11(0)	11(0)	8(0)		5(0)	11(2)	9(3)	ECHANTILLONS(IND.)
LOW	4.6	5.	17.	6.0		19.	L.05	L.0	MINIMUM
HIGH	8.3	23.	40.	12.		110.	.09	26.	MAXIMUM
AVERAGE	6.53	11.5	25.1	9.6		53.	.07*	14.8*	MOYENNE
STD.DEV.	1.58	4.9	6.3	2.0		35.	.01*	11.4*	ECART-TYPE
PERCNT:10TH	4.6	6.5	21.0				L.05		10 <sup>e</sup> PERCNT
25TH	4.9	8.	21.	8.5		35.	.06	L.0	25 <sup>e</sup>
MEDIAN 50TH	7.2	10.	22.	10.0		39.	.08	19.	50 <sup>e</sup> MEDIANE
75TH	8.0	14.	29.	11.0		59.	.08	25.	75 <sup>e</sup>
90TH	8.1	14.5	29.				.09		90 <sup>e</sup>
SECONDARY CODE							01L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	5(0)	11(3)	6(0)	3(3)	3(3)	10(3)	7(6)	5(5)	ECHANTILLONS(IND.)
LOW	.40	L1.0	8.	L.001	L.01	L.001	L.1	L.02	MINIMUM
HIGH	1.40	11.0	14.	L.005	L.01	.010	L1.0	L.02	MAXIMUM
AVERAGE	.72	3.9*	11.0			.005*	.4*		MOYENNE
STD.DEV.	.40		2.2			.003*			ECART-TYPE
PERCNT:10TH		L1.0				L.001			10 <sup>e</sup> PERCNT
25TH	.50	L1.0	10.			L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.55	2.0	10.5	L.001	L.01	.006	L.2	L.02	50 <sup>e</sup> MEDIANE
75TH	.75	8.	13.			.007	L1.0	L.02	75 <sup>e</sup>
90TH		8.5				.009			90 <sup>e</sup>
SECONDARY CODE						33L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)	6(6)	8(0)	11(0)		2(1)	9(5)	5(2)	6(6)	ECHANTILLONS(IND.)
LOW	L.005	.04	.01		L.001	L.001	L.003	L.015	MINIMUM
HIGH	L.005	.67	2.85		.003	L.01	.006	L.015	MAXIMUM
AVERAGE		.19	.69		.002*	.0023*	.004*		MOYENNE
STD.DEV.		.20	.89		.001*	.0030*	.001*		ECART-TYPE
PERCNT:10TH			.04						10 <sup>e</sup> PERCNT
25TH	L.005	.10	.04			L.001	L.003	L.015	25 <sup>e</sup>
MEDIAN 50TH	L.005	.12	.44		.002*	.001	.003	L.015	50 <sup>e</sup> MEDIANE
75TH	L.005	.21	1.20			.002	.005	L.015	75 <sup>e</sup>
90TH			1.70						90 <sup>e</sup>
SECONDARY CODE			02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0044** LAT. **57 D 44 M 23 S** LONG. **111 D 21 M 58 S**

UTM **12 478210 E 6399580 N**  
FEB 11, 1976 TO/A FEB 25, 1977

ATHABASCA RIVER - ABOVE THE FIREBAG  
RIVER - MILE 82.4 - AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	11(0)	11(0)	11(5)	11(4)	11(0)	11(5)	5(4)	5(5)	<b>ECHANTILLONS(IND.)</b>
LOW	.019	.46	L.002	L.002	.001	L.001	L.0005	L.0005	<b>MINIMUM</b>
HIGH	.49	9.30	.004	.020	.014	.103	.005	L.0005	<b>MAXIMUM</b>
AVERAGE	.121	2.42	.002*	.008*	.006	.019*	.0015*		<b>MOYENNE</b>
STD.DEV.	.146	3.23	.001*	.007*	.004	.031*	.0020*		<b>ECART-TYPE</b>
PERCNT:10TH	.020	.48	L.002	L.002	.002	L.001			<b>10<sup>e</sup> PERCNT</b>
25TH	.020	.49	L.002	L.002	.002	L.001	L.0005	L.0005	<b>25<sup>e</sup></b>
MEDIAN 50TH	.070	1.22	.002	.007	.005	.004	L.0005	L.0005	<b>50<sup>e</sup> MEDIANE</b>
75TH	.215	2.35	.003	.011	.007	.029	L.001	L.0005	<b>75<sup>e</sup></b>
90TH	.255	8.4	.003	.019	.012	.037			<b>90<sup>e</sup></b>
SECONDARY CODE	01L	01L	01L	01L	06L 05L	04L 01L	01L		<b>CODE DE SECOURS</b>

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>	6(0)	6(6)	8(8)	3(2)	11(7)	3(3)	6(0)	5(3)	<b>ECHANTILLONS(IND.)</b>
LOW	.20	L.10	L.00	L.001	L.001	L.0	.1	L.0002	<b>MINIMUM</b>
HIGH	.26	L.10	L.01	.001	.002	L.0	.1	.0013	<b>MAXIMUM</b>
AVERAGE	.24			.001*	.001*		.1	.0005*	<b>MOYENNE</b>
STD.DEV.	.03			.000*	.000*		.0	.0005*	<b>ECART-TYPE</b>
PERCNT:10TH					L.001				<b>10<sup>e</sup> PERCNT</b>
25TH	.20	L.10	L.00		L.001		.1	L.0002	<b>25<sup>e</sup></b>
MEDIAN 50TH	.25	L.10	L.00	L.001	L.001	L.0	.1	L.0002	<b>50<sup>e</sup> MEDIANE</b>
75TH	.26	L.10	L.00		.001		.1	.0004	<b>75<sup>e</sup></b>
90TH					.001				<b>90<sup>e</sup></b>
SECONDARY CODE					02L				<b>CODE DE SECOURS</b>

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTRABLE	10551L RESIDUE FIXED FILTRABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	9(4)	5(0)				11(0)	8(0)	8(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.002	2.				4.	105.	66.	<b>MINIMUM</b>
HIGH	.042	4.				334.	251.	211.	<b>MAXIMUM</b>
AVERAGE	.010*	3.				92.	165.	120.	<b>MOYENNE</b>
STD.DEV.	.013*	1.				117.	52.	56.	<b>ECART-TYPE</b>
PERCNT:10TH						7.			<b>10<sup>e</sup> PERCNT</b>
25TH	L.004	2.				13.	132.	92.	<b>25<sup>e</sup></b>
MEDIAN 50TH	.004	2.				65.	152.	95.	<b>50<sup>e</sup> MEDIANE</b>
75TH	.008	4.				82.	199.	153.	<b>75<sup>e</sup></b>
90TH						308.			<b>90<sup>e</sup></b>
SECONDARY CODE	02L								<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0045 LAT. 57 D 55M 31 S LONG. 111 D 26M 41 S

UTM 12 473670E 6420260N

JUL 01 1976 TO/A FEB 08 1978

ATHABASCA RIVER 13 MILES BELOW  
CONFLUENCE WITH THE FIREBAG RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00219L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	8(0)	8(0)	8(0)	8(0)	7(0)	1(0)	8(0)		ECHANTILLONS(IND.)
LOW	66.	33.	25.3	5.	.2	8.3	22.4		MINIMUM
HIGH	390.	205.	133.6	60.	270.	8.3	125.6		MAXIMUM
AVERAGE	264.	143.	100.1	26.	81.9		90.6		MOYENNE
STD.DEV.	116.	59.	35.3	17.	114.4		30.9		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	200.	119.	91.2	13.	2.6		87.0		25 <sup>e</sup>
MEDIAN 50TH	245.	131.	99.3	25.	8.0		90.8		50 <sup>e</sup> MEDIANE
75TH	385.	202.	130.4	33.	218.		110.5		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	.6	2.4	6.5	2.2	0.	27.	.5	6.5	MINIMUM
HIGH	1.9	32.5	37.0	10.3	0.	153.	36.8	29.8	MAXIMUM
AVERAGE	1.3	15.4	27.44	7.7	0.	110.	16.6	19.8	MOYENNE
STD.DEV.	.5	10.4	9.80	2.6	0.	38.	14.5	7.3	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.9	8.6	25.00	7.0	0.	106	6.0	15.6	25 <sup>e</sup>
MEDIAN 50TH	1.3	11.4	27.50	7.5	0.	111.	9.9	20.5	50 <sup>e</sup> MEDIANE
75TH	1.8	24.3	35.50	10.0	0.	135.	32.0	25.1	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L	
SAMPLES(FLAGS)	8(0)	8(3)	1(1)	8(1)		8(3)	8(0)		ECHANTILLONS(IND.)
LOW	.62	L.01	L.003	L.02		L.01	.026		MINIMUM
HIGH	2.89	.59	L.003	.24		.18	.37		MAXIMUM
AVERAGE	1.274	.113*		.071*		.036*	.131		MOYENNE
STD.DEV.	.732	.197*		.073*		.059*	.125		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.745	L.010		.030		L.010	.030		25 <sup>e</sup>
MEDIAN 50TH	1.145	.046		.050		.015	.085		50 <sup>e</sup> MEDIANE
75TH	1.450	.095		.075		.023	.212		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0045 LAT. 57 D 55M 31 S LONG. 111 D 26M 41 S

UTM 12 473670E 6420260 N  
JUL 01, 1976 TO/A FEB 08, 1978ATHABASCA RIVER 13 MILES BELOW  
CONFLUENCE WITH THE FIREBAG RIVER

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	8(0)	8(0)	8(0)	5(0)		8(0)	8(0)	5(5)	ECHANTILLONS(IND.)
LOW	.9	7.0	4.5	7.0		39.	.07	L.0	MINIMUM
HIGH	9.3	22.5	24.5	13.0		142.	.18	L.0	MAXIMUM
AVERAGE	6.21	13.3	18.7	10.0		67.	.10		MOYENNE
STD.DEV.	2.64	4.7	7.1	2.2		35.	.04		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	5.20	10.8	15.3	9.0		42.	.08	L.0	25 <sup>e</sup>
MEDIAN 50TH	6.25	12.3	21.3	10.		57.	.08	L.0	50 <sup>e</sup> MEDIANE
75TH	8.30	15.3	23.8	11.		77.	.10	L.0	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	8(0)	8(4)		5(5)	7(7)	6(3)	7(5)	8(7)	ECHANTILLONS(IND.)
LOW	.3	L1.0		L.001	L.002	L.001	L.1	L.02	MINIMUM
HIGH	2.30	19.0		L.005	L.01	.015	.7	.11	MAXIMUM
AVERAGE	.81	4.4*				.004*	.2*	.03*	MOYENNE
STD.DEV.	.64	6.3*				.006*	.2*	.03*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.48	L1.0		L.001	L.01	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.60	1.5*		L.001	L.01	.001*	L.1	L.02	50 <sup>e</sup> MEDIANE
75TH	.88	5.0		L.001	L.01	.005	.3	L.02	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		7(0)	8(0)		5(5)	4(3)	8(6)		ECHANTILLONS(IND.)
LOW		.02	.01		L.001	L.001	L.003		MINIMUM
HIGH		.17	2.60		L.001	L.01	.13		MAXIMUM
AVERAGE		.09	.81			.0040*	.019*		MOYENNE
STD.DEV.		.06	.97			.0042*	.045*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.04	.08		L.001	L.0010	L.003		25 <sup>e</sup>
MEDIAN 50TH		.10	.32		L.001	.0025*	L.003		50 <sup>e</sup> MEDIANE
75TH		.15	1.55		L.001	.0070*	.004*		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0045 LAT. 57 D 55M 31 S LONG. 111 D 26M 41 S

UTM 12 473670E 6420260N  
JUL 01 1976 TO A FEB 08 1978ATHABASCA RIVER 13 MILES BELOW  
CONFLUENCE WITH THE FIREBAG RIVER

	25104L MANGANESE EXTRBLE. MN MG/L	26104L IRON EXTRBLE. FE MG/L	27102L COBALT EXTRBLE. CO MG/L	28102L NICKEL EXTRBLE. NI MG/L	29101L COPPER EXTRBLE. CU MG/L	30105L ZINC EXTRBLE. ZN MG/L	31104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	8(0)	8(0)	8(5)	8(2)	8(0)	8(0)	4(2)	5(4)	ECHANTILLONS(IND.)
LOW	.003	.57	L.002	L.002	.003	.002	L.0002	L.0002	MINIMUM
HIGH	.255	9.10	.005	.021	.045	.160	.005	.0009	MAXIMUM
AVERAGE	.091	2.89	.003*	.008*	.012	.038	.0025*	.0005*	MOYENNE
STD.DEV.	.099	3.46	.001*	.007*	.014	.051	.0023*	.0002*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.029	.75	L.002	.002*	.006	.011	L.0006	L.0005	25 <sup>e</sup>
MEDIAN 50TH	.043	.97	L.002	.006	.007	.025	.0025*	L.0005	50 <sup>e</sup> MEDIANE
75TH	.163	5.03	.004	.014	.013	.034	.0045	L.0005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					06L 05L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			7(6)		8(8)			8(5)	ECHANTILLONS(IND.)
LOW			L.01		L.001			L.0001	MINIMUM
HIGH			.01		L.001			.0014	MAXIMUM
AVERAGE			.01*					.0004*	MOYENNE
STD.DEV.			.00*					.0004*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.01		L.001			L.0002	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0002	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO. 100ML	36001L COLIFORMS TOTAL MPN NO. 100ML	36000L STD. PLATE COUNT 20 DEG.C. BACT DENS NO. ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	8(4)	8(0)				8(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	L.002	2.				1.	39.	29.	MINIMUM
HIGH	.040	4.				469.	245.	224.	MAXIMUM
AVERAGE	.009*	3.				96.	163.	142.	MOYENNE
STD.DEV.	.013*	1.				161.	73.	72.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.				7.	127.	100	25 <sup>e</sup>
MEDIAN 50TH	.003*	2.				22.	146.	120.	50 <sup>e</sup> MEDIANE
75TH	.010	4.				121.	239.	220.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0046** LAT. **56 D 46 M 53 S** LONG. **111 D 24 M 9 S**

UTM **12 475400E 6292900 N**  
JAN 21, 1970 TO/A MAR 09, 1976

ATHABASCA RIVER AT TAR ISLAND

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	17(0)	14(1)	24(0)	1(0)	25(0)	28(0)	28(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	210.	92.	35.	395.	1.	7.1	66.		<b>MINIMUM</b>
<b>HIGH</b>	400.	256.	200.	395.	65.	8.3	205.		<b>MAXIMUM</b>
<b>AVERAGE</b>	316.	188.*	154.2		9.5		140.8		<b>MOYENNE</b>
<b>STD.DEV.</b>	65.	48.*	37.8		14.2		30.4		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	212.	120.	106.		2.	7.3	98.		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	260.	171.	139.5		3.	7.7	123.5		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	330.	199.	164.0		5.	8.0	142.5		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	375.	228.	176.5		9.	8.1	155.0		<b>75<sup>e</sup></b>
<b>90TH</b>	395.	237.	192.		12.	8.3	183.		<b>90<sup>e</sup></b>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	10(0)	20(0)	13(0)	18(0)	10(0)	10(0)	28(0)	27(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.7	5.	16.	7.	0.	80.	1.	L10.	<b>MINIMUM</b>
<b>HIGH</b>	2.3	20.	58.	33.	0.	188.	44.	72.	<b>MAXIMUM</b>
<b>AVERAGE</b>	1.7	12.8	38.55	10.2	0.	146.	12.7	37.0*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.5	4.6	13.08	5.9	0.	32.	9.6	14.6*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.9	6.0	18.	7.	0.	100.	4.	16.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	1.7	9.5	30.	7.	0.	119.	7.0	26.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	1.9	13.0	42.	8.5	0.	153.	10.0	35.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	2.0	16.5	49.6	11.	0.	169.	18.0	48.	<b>75<sup>e</sup></b>
<b>90TH</b>	2.2	17.5	50.	12.	0.	180.	23.	55.	<b>90<sup>e</sup></b>
SECONDARY CODE		02L	03L	03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	10571L RESIDUE FIXED TOTAL	
SUBM ID	MG/L	LAS MG/L	MPN NO/DL	MPN NO/DL	BACT.DENS. NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	26(5)	2(0)	25(0)	25(1)	21(0)	6(0)	19(0)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	1.	.10	0.	8.	20.	18.	196.	148.	<b>MINIMUM</b>
<b>HIGH</b>	3.	.3	540.	G1800.	67000.	1052.	396.	326.	<b>MAXIMUM</b>
<b>AVERAGE</b>	2.*	.20	40.	326.*	11556.	253.	290.	214.	<b>MOYENNE</b>
<b>STD.DEV.</b>	1.*	.14	114.	466.*	17493.	402.	58.	59.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	1.		2.	17.	300.		226.		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L1.		4.	54.	1350.	28.	240.	172.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	1.	.20	8.	130.	3000.	86.	288.	196.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	2.		14.	350.	10000.	248.	330.	234.	<b>75<sup>e</sup></b>
<b>90TH</b>	3.		33.	920.	35000.		382.		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0046 LAT. 56 D 46M 53 S LONG. 111 D 24M 9 S

UTM 12 475400E 6292900N  
JAN 21 1970 TO: A MAR 09 1976

## ATHABASCA RIVER AT TAR ISLAND

SUBM ID	07107L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL CALCULATED N MG/L	15419L PHOSPHORUS TOTAL PHOSPHATE P MG/L	15406L PHOSPHORUS TOTAL PHOSPHATE P MG/L	08101L OXYGEN DISSOLVED DO O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	ECHANTILLONS(IND.) MINIMUM MAXIMUM MOYENNE ECART-TYPE
SAMPLES(FLAGS)	26(11)	10(10)	28(9)	1(0)	23(4)	23(4)	22(0)	25(2)	
LOW	L.1	L.1	.1	.526	.0	.0	8.1	L.05	
HIGH	.4	L.1	.8	.526	1.8	1.8	14.4	.41	
AVERAGE	.135*		.350*		.300*	.300*	12.4	.16*	
STD.DEV.	.069*		.188*		.394*	.394*	1.4	.08*	
PERCNT:10TH	L.1	L.100	L.2		L.1	L.1	11.2	.05	10 <sup>e</sup> PERCNT
25TH	L.1	L.1	L.200		L.1	L.1	11.8	.10	25 <sup>e</sup>
MEDIAN 50TH	.100	L.100	.300		.2	.2	12.2	.16	50 <sup>e</sup> MEDIANE
75TH	.2	L.1	.500		.3	.3	13.6	.21	75 <sup>e</sup>
90TH	.2	L.100	.6		.6	.6	13.9	.24	90 <sup>e</sup>
SECONDARY CODE	06L	06L	55L		06L			07L	CODE DE SECOURS

SUBM ID	24003L CHROMIUM TOTAL CR MG/L	25006L MANGANESE TOTAL MN MG/L	26002L IRON TOTAL FE MG/L	26302L IRON EXTRBLE. FE MG/L	27004L COBALT TOTAL CO MG/L	28004L NICKEL TOTAL NI MG/L	29008L COPPER TOTAL CU MG/L	30006L ZINC TOTAL ZN MG/L	ECHANTILLONS(IND.) MINIMUM MAXIMUM MOYENNE ECART-TYPE
SAMPLES(FLAGS)	7(3)	14(0)	13(1)	5(0)	14(7)	14(2)	14(1)	10(1)	
LOW	L.001	.000	L.1	.1	L.001	L.001	L.001	.007	
HIGH	.013	.071	1.0	3.4	.009	.020	.033	.10	
AVERAGE	.004*	.017	.438*	1.380	.002*	.008*	.009*	.036*	
STD.DEV.	.004*	.023	.275*	1.668	.002*	.006*	.008*	.028*	
PERCNT:10TH		.000	.2		L.001	L.001	.003	.008*	10 <sup>e</sup> PERCNT
25TH	L.001	.000	.2	.2	L.001	.005	.005	.012	25 <sup>e</sup>
MEDIAN 50TH	.003	.012	.4	.2	.001*	.007	.008	.030	50 <sup>e</sup> MEDIANE
75TH	.006	.018	.6	3.0	.004	.009	.009	.050	75 <sup>e</sup>
90TH		.060	.8		.006	.016	.016	.077	90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

SUBM ID	33003L ARSENIC TOTAL AS MG/L	47003L SILVER TOTAL AG MG/L	48004L CADMIUM TOTAL CD MG/L	80002L MERCURY TOTAL HG MG/L	82005L LEAD TOTAL PB MG/L	08201L OXYGEN BIOCHEM. DEMAND-BOD O2 MG/L	06531L PHENOLIC MATERIAL PHENOL MG/L	06551L TANNIN AND LIGNIN TAL MG/L	ECHANTILLONS(IND.) MINIMUM MAXIMUM MOYENNE ECART-TYPE
SAMPLES(FLAGS)	1(0)	3(3)	15(10)	16(8)	15(3)	23(5)	27(4)	25(0)	
LOW	.010	L.001	L.001	.0001	L.001	.4	.000	.2	
HIGH	.010	L.001	.006	.0036	.910	4.8	.023	1.9	
AVERAGE			.002*	.00082*	.133*	1.3*	.004*	.78	
STD.DEV.			.001*	.00100*	.314*	1.0*	.005*	.34	
PERCNT:10TH			L.001	.0001	L.001	.5	L.001	.4	10 <sup>e</sup> PERCNT
25TH			L.001	.00015*	.004	.7	.001	.6	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	.00035*	.011	L.1.0	.002	.7	50 <sup>e</sup> MEDIANE
75TH			.001	.00115	.032	1.2	.006	.9	75 <sup>e</sup>
90TH			.004	.0022	.900	2.5	.009	1.2	90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L	32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0048** LAT. **57 D 1M 30 S** LONG. **111 D 29M 6 S**UTM **12 470600E 6320100 N**

JUL 31, 1972 TO/A AUG 19, 1974

## STEEPBANK RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	5(0)	4(2)	4(0)		6(1)	6(0)	6(0)		ECHANTILLONS(IND.)
LOW	145.	Q101.	112.		2.	8.0	71.		MINIMUM
HIGH	360.	214.	158.		45.	8.3	189.		MAXIMUM
AVERAGE	229.	143.*	133.8		12.5*		117.5		MOYENNE
STD.DEV.	88.	49.*	21.8		16.6*		43.1		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	152.	114.	115.5		2.	8.0	74.		25 <sup>e</sup>
MEDIAN 50TH	239.	128.	132.5		5.5	8.2	122.5		50 <sup>e</sup> MEDIANE
75TH	250.	172.	152.0		G15.	8.3	126.		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	3(0)	6(0)	4(0)	6(0)	5(0)	5(0)	6(2)	5(1)	ECHANTILLONS(IND.)
LOW	.3	4.	22.	5.	0.	83.	L1.	L5.	MINIMUM
HIGH	1.3	23.	44.	9.	4.	230.	7.	31.	MAXIMUM
AVERAGE	.7	10.1	33.15	7.0	1.	140.	3.9*	18.2*	MOYENNE
STD.DEV.	.5	6.9	9.00	1.5	2.	60.	2.8*	9.7*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		5.	27.30	6.	0.	87.	L1.	15.	25 <sup>e</sup>
MEDIAN 50TH	.6	8.5	33.30	7.0	0.	146.	3.6	17.	50 <sup>e</sup> MEDIANE
75TH		11.6	39.00	8.	0.	154.	7.	23.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02L 03L		03L			03L		CODE DE SECOURS

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SAMPLES(FLAGS)	5(2)	1(0)				1(0)	3(0)	2(0)	ECHANTILLONS(IND.)
LOW	L1.	2.6				166.	164.	140.	MINIMUM
HIGH	141.	2.6				166.	314.	182.	MAXIMUM
AVERAGE	30.*						237.	161.	MOYENNE
STD.DEV.	62.*						75.	30.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L1.								25 <sup>e</sup>
MEDIAN 50TH	1.						234.	161.	50 <sup>e</sup> MEDIANE
75TH	4.								75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0048 LAT. 57 D 1M 30 S LONG. 111 D 29 M 6 S

UTM 12 470600E 6320100N  
JUL 31 1972 TO A AUG 19 1974

## STEEPBANK RIVER

	07107L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL CALCULATED N MG/L	15419L PHOSPHORUS TOTAL PHOSPHATE P MG/L	15406L PHOSPHORUS TOTAL PHOSPHATE P MG/L	08101L OXYGEN DISSOLVED DO MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	6(5)	2(2)	5(1)	1(0)	4(0)	4(0)		4(1)	ECHANTILLONS(IND.)
LOW	L.1	L.1	L.2	1.160	.1	.1		L.05	MINIMUM
HIGH	.16	L.1	1.8	1.160	1.2	1.2		.16	MAXIMUM
AVERAGE	.110*		.840*		.450	.450		.11*	MOYENNE
STD.DEV.	.024*		.611*		.507	.507		.05*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.1		.5		150	150		.07*	25 <sup>e</sup>
MEDIAN 50TH	L.100	L.100	.7		.250	.250		.11	50 <sup>e</sup> MEDIANE
75TH	L.1		1.0		750	750		.14	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	06L							CODE DE SECOURS

	24003L CHROMIUM TOTAL CR MG/L	25006L MANGANESE TOTAL MN MG/L	26002L IRON TOTAL FE MG/L	26302L IRON EXTRBL. FE MG/L	27004L COBALT TOTAL CO MG/L	28004L NICKEL TOTAL N MG/L	29008L COPPER TOTAL CU MG/L	30006L ZINC TOTAL ZN MG/L	
SAMPLES(FLAGS)	2(0)	4(0)	4(0)	1(1)	4(3)	4(0)	4(0)	4(1)	ECHANTILLONS(IND.)
LOW	.004	.000	.5	L.1	L.001	.003	.004	L.01	MINIMUM
HIGH	.020	.124	2.2	L.1	.004	.015	.011	.07	MAXIMUM
AVERAGE	.012	.050	1.300		.002*	.008	.007	.030*	MOYENNE
STD.DEV.	.011	.061	.927		.002*	.005	.003	.027*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.000	.500		L.001	.004	.005	.015*	25 <sup>e</sup>
MEDIAN 50TH	.012	.038	1.250		L.001	.006	.006	.020	50 <sup>e</sup> MEDIANE
75TH		.100	2.100		.002*	.012	.009	.045	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L		09L		CODE DE SECOURS

	33003L ARSENIC TOTAL AS MG/L	47003L SILVER TOTAL AG MG/L	48004L CADMIUM TOTAL CD MG/L	80002L MERCURY TOTAL HG MG/L	82005L LEAD TOTAL PB MG/L	08201L OXYGEN BIOCHEM DEMAND-BOD MG/L	06531L PHENOLIC MATERIAL PHENOL MG/L	06531L TANNIN AND LIGNIN T&L MG/L	
SAMPLES(FLAGS)	1(0)		4(3)	4(2)	4(1)		5(1)	5(0)	ECHANTILLONS(IND.)
LOW	.012		L.001	.0001	L.001		L.001	.74	MINIMUM
HIGH	.012		.004	.0012	.018		.012	6.0	MAXIMUM
AVERAGE			.002*	.00062*	.007*		.006*	2.39	MOYENNE
STD.DEV.			.002*	.00056*	.008*		.005*	2.11	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.001	.00015	.001*		.002	1.1	25 <sup>e</sup>
MEDIAN 50TH			L.001	.00060*	.005		.004	1.8	50 <sup>e</sup> MEDIANE
75TH			.002*	.00110	.013		.011	2.3	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L				CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0049** LAT. **57 D 3M 21 S** LONG. **111 D 36M 15 S**UTM **12 463400E 6323500 N**  
JUL 31, 1972 TO/A JUL 02, 1975

## MUSKEG RIVER

	02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	7(0)	5(1)	5(0)		5(0)	7(0)	7(0)		<b>ECHANTILLONS(IND.)</b>
LOW	235.	Q96.	108.		3.	7.8	66.		<b>MINIMUM</b>
HIGH	375.	221.	182.		4.	8.5	199.		<b>MAXIMUM</b>
AVERAGE	293.	162.*	156.2		3.2		141.3		<b>MOYENNE</b>
STD.DEV.	53.	56.*	30.7		.4		47.9		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	247.	119.	145.		3.	8.0	102.		<b>25<sup>e</sup></b>
MEDIAN 50TH	282.	159.	166.		3.	8.1	147.		<b>50<sup>e</sup> MEDIANE</b>
75TH	340.	217.	180.		3.	8.3	196.		<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	3(0)	7(0)	5(0)	7(0)	7(0)	7(0)	7(1)	6(1)	<b>ECHANTILLONS(IND.)</b>
LOW	.4	6.	24.	3.	0.	80.	L1.	L10.	<b>MINIMUM</b>
HIGH	1.0	14.	60.	10.	3.	243.	9.	31.	<b>MAXIMUM</b>
AVERAGE	.8	11.5	42.08	7.7	0.	171.	4.3*	16.8*	<b>MOYENNE</b>
STD.DEV.	.3	2.8	16.81	2.3	1.	58.	2.7*	8.1*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH		10.	26.	7.	0.	124.	2.	10.	<b>25<sup>e</sup></b>
MEDIAN 50TH	.9	12.	43.4	8.	0.	175.	4.	15.0	<b>50<sup>e</sup> MEDIANE</b>
75TH		14.	57.	9.	0.	239.	6.	20.	<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE		02L 03L		03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHINTS.	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	10571L RESIDUE FIXED TOTAL	
SUBM ID	MG/L	LAS MG/L	MPN NO/DL	MPN NO/DL	BACT.DENS. NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	6(1)	1(0)					3(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L1.	2.6					270.	136.	<b>MINIMUM</b>
HIGH	250.	2.6					304.	140.	<b>MAXIMUM</b>
AVERAGE	43.*						285.	138.	<b>MOYENNE</b>
STD.DEV.	101.*						17.	3.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	2.								<b>25<sup>e</sup></b>
MEDIAN 50TH	2.						282.	138.	<b>50<sup>e</sup> MEDIANE</b>
75TH	3.								<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DA0049 LAT 57° 3' 21" N LONG 111° 36' 15" W

ITEM 12 463400 6323500

JUL 31 1972 TO/A JUL 02 1975

## MUSKEG RIVER

	07107L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL CALCULATED N MG/L	15419L PHOSPHORUS TOTAL PHOSPHATE P MG/L	15406L PHOSPHORUS TOTAL PHOSPHATE P MG/L	08101L OXYGEN DISSOLVED DO MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	7(5)	3(3)	6(2)	1(0)	4(1)	4(1)		5(3)	ECHANTILLONS(IND.)
LOW	.02	L.1	L.2	1.150	L.1	L.1		L.05	MINIMUM
HIGH	.1	L.1	2.4	1.150	.6	.6		.16	MAXIMUM
AVERAGE	.089*		1.000*		.375*	.375*		.08*	MOYENNE
STD.DEV.	.030*		.860*		.263*	.263*		.05*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.1		L.2		.150*	.150*		L.05	25 <sup>e</sup>
MEDIAN 50TH	L.1	L.1	.800		.400	.400		L.05	50 <sup>e</sup> MEDIANE
75TH	L.1		1.6		.600	.600		.11	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	06L			06L				CODE DE SECOURS

	24003L CHROMIUM TOTAL CR MG/L	25006L MANGANESE TOTAL MN MG/L	26002L IRON TOTAL FE MG/L	26302L IRON EXTRBL FE MG/L	27004L COBALT TOTAL CO MG/L	28004L NICKEL TOTAL NI MG/L	29008L COPPER TOTAL CU MG/L	30006L ZINC TOTAL ZN MG/L	
SAMPLES(FLAGS)	2(0)	4(0)	4(0)	2(0)	4(2)	4(1)	4(1)	4(0)	ECHANTILLONS(IND.)
LOW	.007	.000	.7	.8	L.001	L.001	L.001	.01	MINIMUM
HIGH	.017	.142	1.3	.9	.007	.008	.022	.115	MAXIMUM
AVERAGE	.012	.048	.975	.850	.003*	.005*	.008*	.043	MOYENNE
STD.DEV.	.007	.067	.275	.071	.003*	.003*	.010*	.049	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.000	.750		L.001	.003*	.002*	.015	25 <sup>e</sup>
MEDIAN 50TH	.012	.025	.950	.850	.002*	.006	.004	.023	50 <sup>e</sup> MEDIANE
75TH		.096	1.200		.006	.007	.013	.070	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

	33003L ARSENIC TOTAL AS MG/L	47003L SILVER TOTAL AG MG/L	48004L CADMIUM TOTAL CD MG/L	80002L MERCURY TOTAL HG MG/L	82005L LEAD TOTAL PB MG/L	08201L OXYGEN BIOCHEM. DEMAND-BOO O2 MG/L	06531L PHENOLIC MATERIAL PHENOL MG/L	06591L TANNIN AND LIGNIN T&L MG/L	
SAMPLES(FLAGS)	1(0)		4(3)	5(3)	4(2)		6(3)	5(0)	ECHANTILLONS(IND.)
LOW	.001		L.001	.0001	L.001		L.001	.94	MINIMUM
HIGH	.001		.004	.0010	.016		.011	3.5	MAXIMUM
AVERAGE			.002*	.00050*	.008*		.003*	1.91	MOYENNE
STD.DEV.			.002*	.00037*	.008*		.004*	.97	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.001	.0002	L.001		L.001	1.4	25 <sup>e</sup>
MEDIAN 50TH			L.001	.0005	.007*		.002	1.7	50 <sup>e</sup> MEDIANE
75TH			.002*	.0007	.015		L.004	2.0	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L		32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0051** LAT. **57 D 11M 40 S** LONG. **111 D 36M 30 S**

UTM **12 463250E 6339000N**  
JAN 31, 1973 TO/A MAR 09, 1976

ATHABASCA RIVER AT FORT MACKAY

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CA MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	11(0)	8(1)	8(0)		10(2)	11(0)	11(0)		ECHANTILLONS(IND.)
LOW	210.	102.	77.		2.	7.3	73.		MINIMUM
HIGH	430.	240.	236.		G15.	8.1	165.		MAXIMUM
AVERAGE	332.	187.*	151.5		7.6*		129.6		MOYENNE
STD.DEV.	71.	51.*	45.3		5.6*		29.7		ECART-TYPE
PERCNT:10TH	240.				2.0	7.4	93.		10 <sup>e</sup> PERCNT
25TH	270.	152.	132.0		3.	7.4	102.		25 <sup>e</sup>
MEDIAN 50TH	330.	193.	155.5		6.0	7.8	131.		50 <sup>e</sup> MEDIANE
75TH	400.	233.	162.0		15.	8.0	156.		75 <sup>e</sup>
90TH	405.				15.0	8.0	164.		90 <sup>e</sup>
SECONDARY CODE			04L 05L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	2(0)	11(0)	7(0)	11(0)	9(0)	9(0)	11(0)	11(1)	ECHANTILLONS(IND.)
LOW	1.7	7.	15.	8.	0.	89.	4.	L10.	MINIMUM
HIGH	2.0	21.	49.	28.	0.	190.	25.	73.	MAXIMUM
AVERAGE	1.8	15.8	30.71	12.5	0.	149.	12.5	35.3*	MOYENNE
STD.DEV.	.2	4.9	11.44	6.5	0.	33.	6.6	18.3*	ECART-TYPE
PERCNT:10TH		9.		8.			8.	19.	10 <sup>e</sup> PERCNT
25TH		12.	22.	8.	0.	124.	9.	23.	25 <sup>e</sup>
MEDIAN 50TH	1.8	16.	34.	10.	0.	158.	10.	29.	50 <sup>e</sup> MEDIANE
75TH		21.	37.	12.	0.	171.	15.	45.	75 <sup>e</sup>
90TH		21.		22.			24.	60.	90 <sup>e</sup>
SECONDARY CODE		02L	03L	03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SAMPLES(FLAGS)	11(4)		10(0)	10(3)	7(0)	4(1)	3(0)		ECHANTILLONS(IND.)
LOW	L1.		0.	29.	100.	L10.	282.		MINIMUM
HIGH	5.		920.	G2400.	35000.	146.	302.		MAXIMUM
AVERAGE	2.*		169.	1032.*	13493.	79.*	295.		MOYENNE
STD.DEV.	1.*		300.	937.*	12805.	77.*	11.		ECART-TYPE
PERCNT:10TH	L1.		2.	75.					10 <sup>e</sup> PERCNT
25TH	L1.		9.	350.	2200.	12.*			25 <sup>e</sup>
MEDIAN 50TH	2.		13.	635.	12500.	80.	300.		50 <sup>e</sup> MEDIANE
75TH	4.		350.	G1800.	21500.	146.			75 <sup>e</sup>
90TH	4.		635.	2400.					90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0051 LAT. 57 D 11M 40 S LONG. 111 D 36M 30 S

UTM 12 463250: 6339000 N  
JAN 31 1973 TO/A MAR 09 1976

## ATHABASCA RIVER AT FORT MACKAY

	07107L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15419L PHOSPHORUS TOTAL PHOSPHATE	15406L PHOSPHORUS TOTAL PHOSPHATE	08101L OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	O2 MG/L	F MG/L	
SAMPLES(FLAGS)	10(9)	9(9)	11(7)	1(0)	7(1)	7(1)	8(0)	10(2)	ECHANTILLONS(IND.)
LOW	L.1	L.1	L.2	.503	L.1	L.1	8.3	L.05	MINIMUM
HIGH	.1	L.1	.4	.503	1.2	1.2	13.7	.19	MAXIMUM
AVERAGE	.100*		.236*		.429*	.429*	12.3	.12*	MOYENNE
STD.DEV.	.000*		.081*		.399*	.399*	1.8	.05*	ECART-TYPE
PERCNT:10TH	L.100		L.2					L.05	10 <sup>e</sup> PERCNT
25TH	L.1	L.1	L.2		.1	.1	11.9	.08	25 <sup>e</sup>
MEDIAN 50TH	L.100	L.1	L.2		.3	.3	12.6	.14	50 <sup>e</sup> MEDIANE
75TH	L.1	L.1	.2		.7	.7	13.5	.17	75 <sup>e</sup>
90TH	.100*		.4					.18	90 <sup>e</sup>
SECONDARY CODE		06L	55L		06L				CODE DE SECOURS

	24003L CHROMIUM TOTAL CR	25006L MANGANESE TOTAL MN	26002L IRON TOTAL FE	26302L IRON EXTRBL.	27004L COBALT TOTAL CO	28004L NICKEL TOTAL NI	29008L COPPER TOTAL CU		
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		
SAMPLES(FLAGS)	6(4)	7(0)	7(0)	4(0)	7(6)	7(1)	7(1)	5(0)	ECHANTILLONS(IND.)
LOW	L.001	.000	.3	.3	L.001	L.001	L.001	.02	MINIMUM
HIGH	.018	.038	2.2	1.0	.005	.110	.031	.18	MAXIMUM
AVERAGE	.005*	.008	.814	.650	.002*	.022*	.011*	.074	MOYENNE
STD.DEV.	.007*	.015	.684	.351	.002*	.039*	.010*	.067	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.001	.000	.3	.350	L.001	.004	.004	.03	25 <sup>e</sup>
MEDIAN 50TH	L.001	.000	.5	.650	L.001	.009	.011	.04	50 <sup>e</sup> MEDIANE
75TH	.007	.021	1.1	.950	L.001	.013	.015	.10	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

	33003L ARSENIC TOTAL AS	47003L SILVER TOTAL AG	48004L CADMIUM TOTAL CD	80002L MERCURY TOTAL HG	82005L LEAD TOTAL PB	08201L OXYGEN BIOCHEM. DEMAND-BOD O2	06531L PHENOLIC MATERIAL PHENOL	06551L TANNIN AND LIGNIN MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		
SAMPLES(FLAGS)		3(3)	8(5)	10(6)	8(3)	10(3)	11(1)	10(0)	ECHANTILLONS(IND.)
LOW		L.001	L.001	.0001	L.001	.9	L.001	.1	MINIMUM
HIGH		L.001	.005	.0020	.051	3.1	.095	10.2	MAXIMUM
AVERAGE			.002*	.00038*	.010*	1.6*	.012*	1.60	MOYENNE
STD.DEV.			.001*	.00058*	.017*	.8*	.028*	3.04	ECART-TYPE
PERCNT:10TH				.00010		.9	.001	20	10 <sup>e</sup> PERCNT
25TH			L.001	.0001	L.001	L1.0	.002	4	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	.00020	.004	1.2*	.002	.73	50 <sup>e</sup> MEDIANE
75TH			.002	.0002	.010	1.9	.004	1.0	75 <sup>e</sup>
90TH				.00125*		3.0	.016	5.60	90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L	32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0052** LAT. **57 D 18 M 15 S** LONG. **111 D 39 M 0 S**

UTM **12 460800E 6351200 N**  
JUL 31, 1972 TO/A JUL 02, 1975

ELLS RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	9(0)	5(1)	7(0)		8(1)	9(0)	8(0)		ECHANTILLONS(IND.)
LOW	150.	Q87.	72.		2.	7.6	64.		MINIMUM
HIGH	335.	218.	128.		30.	8.3	138.		MAXIMUM
AVERAGE	216.	142.*	93.8		7.7*		89.3		MOYENNE
STD.DEV.	61.	53.*	18.3		10.0*		25.1		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	180.	96.	76.		2.2	7.9	70.0		25 <sup>e</sup>
MEDIAN 50TH	197.	151.	94.		3.0	8.0	82.0		50 <sup>e</sup> MEDIANE
75TH	245.	159.	98.		9.5	8.2	104.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	5(0)	9(0)	7(0)	8(0)	6(0)	6(0)	9(1)	8(0)	ECHANTILLONS(IND.)
LOW	1.1	3.	16.	2.	0.	82.	L1.	15.	MINIMUM
HIGH	2.3	28.	40.	12.	0.	168.	8.	80.	MAXIMUM
AVERAGE	1.5	13.1	27.06	6.3	0.	112.	4.2*	35.5	MOYENNE
STD.DEV.	.5	7.5	7.15	2.8	0.	33.	2.3*	22.0	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.2	11.	24.	5.5	0.	89.	2.1	17.0	25 <sup>e</sup>
MEDIAN 50TH	1.4	11.0	27.	6.0	0.	100.	4.	33.0	50 <sup>e</sup> MEDIANE
75TH	1.7	16.	29.	6.5	0.	130.	6.	44.5	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02L 03L		03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SUBM ID									
SAMPLES(FLAGS)	6(0)	1(0)				1(0)	3(0)	2(0)	ECHANTILLONS(IND.)
LOW	2.	2.6				68.	172.	102.	MINIMUM
HIGH	66.	2.6				68.	890.	766.	MAXIMUM
AVERAGE	13.						441.	434.	MOYENNE
STD.DEV.	26.						392.	470.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	2.								25 <sup>e</sup>
MEDIAN 50TH	2.						260.	434.	50 <sup>e</sup> MEDIANE
75TH	4.								75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0052 LAT 57 D 18 M 15 S LONG. 111 D 39 M 0 S

UTM 12 460800E 6351200N  
JUL 31 1972 TO/A JUL 02 1975

ELLS RIVER

	07107L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL CALCULATED N MG/L	15419L PHOSPHORUS TOTAL PHOSPHATE P MG/L	15406L PHOSPHORUS TOTAL PHOSPHATE P MG/L	08101L OXYGEN DISSOLVED DO O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	9(8)	3(3)	8(2)	1(0)	6(0)	6(0)		5(2)	ECHANTILLONS(IND.)
LOW	.04	L.1	L.2	.890	.1	.1		L.05	MINIMUM
HIGH	L.1	L.1	2.1	.890	.9	.9		.16	MAXIMUM
AVERAGE	.093*		.588*		.367	.367		.08*	MOYENNE
STD.DEV.	.020*		.627*		.344	.344		.05*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.1		.250*		.1	.1		L.05	25 <sup>e</sup>
MEDIAN 50TH	L.1	L.1	.400		.200	.200		.06	50 <sup>e</sup> MEDIANE
75TH	L.1		.550		.7	.7		.10	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	06L			06L				CODE DE SECOURS

	24003L CHROMIUM TOTAL CR MG/L	25006L MANGANESE TOTAL MN MG/L	26002L IRON TOTAL FE MG/L	26302L IRON EXTRBLE. FE MG/L	27004L COBALT TOTAL CO MG/L	28004L NICKEL TOTAL NI MG/L	29008L COPPER TOTAL CU MG/L	30006L ZINC TOTAL ZN MG/L	
SAMPLES(FLAGS)	2(1)	4(0)	6(1)	2(0)	4(3)	4(0)	4(0)	4(1)	ECHANTILLONS(IND.)
LOW	L.001	.000	L.1	.6	L.001	.004	.006	L.01	MINIMUM
HIGH	.017	.750	12.4	1.6	.004	.044	.026	.065	MAXIMUM
AVERAGE	.009*	.193	2.233*	1.100	.002*	.019	.013	.024*	MOYENNE
STD.DEV.	.011*	.372	4.982*	.707	.002*	.018	.009	.027*	ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH		.000	.1		L.001	.007	.007	.010*	25 <sup>e</sup>
MEDIAN 50TH	.009*	.010	.200	1.100	L.001	.014	.011	.011	50 <sup>e</sup> MEDIANE
75TH		.385	.4		.002*	.031	.020	.039	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

	33003L ARSENIC TOTAL AS MG/L	47003L SILVER TOTAL AG MG/L	48004L CADMIUM TOTAL CD MG/L	80002L MERCURY TOTAL HG MG/L	82005L LEAD TOTAL PB MG/L	08201L OXYGEN BIOCHEM. DEMAND-BOD O2 MG/L	06531L PHENOLIC MATERIAL PHENOL MG/L	06551L TANNIN AND LIGNIN T&L MG/L	
SAMPLES(FLAGS)	1(1)		4(3)	5(2)	4(1)		6(3)	6(0)	ECHANTILLONS(IND.)
LOW	L.001		L.001	.0001	L.001		L.001	.32	MINIMUM
HIGH	L.001		.004	.0035	.022		.011	2.9	MAXIMUM
AVERAGE			.002*	.00114*	.012*		.004*	1.60	MOYENNE
STD.DEV.			.002*	.00138*	.009*		.004*	1.04	ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH			L.001	.0002	.004*		L.001	.9	25 <sup>e</sup>
MEDIAN 50TH			L.001	.0009	.013		.003*	1.40	50 <sup>e</sup> MEDIANE
75TH			.002*	.0010	.020		.005	2.7	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			35L	33L	36L		32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DA0053** LAT. **57 D 23 M 30 S** LONG. **111 D 39 M 0 S**UTM **12 460900E 6361000 N**  
OCT 05, 1972 TO/A JUL 02, 1975

## ATHABASCA RIVER - BITUMOUNT

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>6(0)</b>	<b>3(0)</b>	<b>4(0)</b>		<b>5(2)</b>	<b>6(0)</b>	<b>6(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	190.	117.	99.		4.	7.8	49.		MINIMUM
HIGH	270.	168.	120.		30.	8.3	113.		MAXIMUM
AVERAGE	236.	143.	111.3		14.2*		85.2		MOYENNE
STD.DEV.	27.	25.	8.8		10.1*		21.1		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	220.		105.5		7.	7.8	81.		25 <sup>e</sup>
MEDIAN 50TH	243.	143.	113.0		G15.	8.0	86.0		50 <sup>e</sup> MEDIANE
75TH	248.		117.0		G15.	8.2	96.		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			04L 05L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>2(0)</b>	<b>5(0)</b>	<b>4(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>5(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	1.2	7.	22.	4.	0.	60.	6.	17.	MINIMUM
HIGH	1.3	15.	40.	8.	0.	138.	15.	49.	MAXIMUM
AVERAGE	1.2	10.2	33.00	6.5	0.	104.	9.1	31.6	MOYENNE
STD.DEV.	.1	3.6	8.08	1.4	0.	26.	3.4	12.2	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		7.	27.00	6.	0.	99.	6.5	25.	25 <sup>e</sup>
MEDIAN 50TH	1.2	9.	35.00	7.0	0.	105.	8.0	30.	50 <sup>e</sup> MEDIANE
75TH		13.	39.00	7.	0.	117.	11.	37.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02L		03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>6(3)</b>	<b>1(0)</b>				<b>3(1)</b>	<b>3(0)</b>	<b>2(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	L1.	2.7				L1.	204.	414.	MINIMUM
HIGH	176.	2.7				366.	2518.	2244.	MAXIMUM
AVERAGE	30.*					141.*	1086.	1329.	MOYENNE
STD.DEV.	71.*					197.*	1251.	1294.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L1.								25 <sup>e</sup>
MEDIAN 50TH	1.*					55.	536.	1329.	50 <sup>e</sup> MEDIANE
75TH	2.								75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DA0053 LAT. 57 D 23M 30 S LONG. 111 D 39M 0 S

UTM 12 460900E 6361000 N

OCT 05 1972 TO/A JUL 02 1975

## ATHABASCA RIVER BITUMOUNT

	07107L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL CALCULATED N MG/L	15419L PHOSPHORUS TOTAL PHOSPHATE P MG/L	15406L PHOSPHORUS TOTAL PHOSPHATE P MG/L	08101L OXYGEN DISSOLVED DO O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	6(4)	3(3)	4(2)	1(0)	3(0)	3(0)		5(2)	ECHANTILLONS(IND.)
LOW	.08	L.1	L.2	.750	.2	.2		L.05	MINIMUM
HIGH	.1	L.1	1.8	.750	1.8	1.8		.16	MAXIMUM
AVERAGE	.097*		.625*		1.067	1.067		.08*	MOYENNE
STD.DEV.	.008*		.785*		.808	.808		.05*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.1		L.200					L.05	25 <sup>e</sup>
MEDIAN 50TH	L.100	L.1	.250*		1.2	1.2		.05	50 <sup>e</sup> MEDIANE
75TH	L.1		1.050					.08	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	06L			06L				CODE DE SECOURS

	24003L CHROMIUM TOTAL CR MG/L	25006L MANGANESE TOTAL MN MG/L	26002L IRON TOTAL FE MG/L	26302L IRON EXTRBL. FE MG/L	27004L COBALT TOTAL CO MG/L	28004L NICKEL TOTAL NI MG/L	29008L COPPER TOTAL CU MG/L	30006L ZINC TOTAL ZN MG/L	
SAMPLES(FLAGS)	1(0)	4(0)	3(0)	2(0)	4(0)	3(0)	4(0)	4(1)	ECHANTILLONS(IND.)
LOW	.010	.000	.1	.3	.001	.002	.004	.008	MINIMUM
HIGH	.010	.132	56.4	.9	.075	.062	.029	.02	MAXIMUM
AVERAGE		.049	18.900	.600	.021	.023	.013	.015*	MOYENNE
STD.DEV.		.058	32.476	.424	.036	.034	.012	.006*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.013			.002		.004	.009*	25 <sup>e</sup>
MEDIAN 50TH		.032	.2	.600	.003	.004	.009	.015*	50 <sup>e</sup> MEDIANE
75TH		.086			.040		.021	.020	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

	33003L ARSENIC TOTAL AS MG/L	47003L SILVER TOTAL AG MG/L	48004L CADMIUM TOTAL CD MG/L	80002L MERCURY TOTAL HG MG/L	82005L LEAD TOTAL PB MG/L	08201L OXYGEN BIOCHEM. DEMAND-BOD O2 MG/L	06531L PHENOLIC MATERIAL PHENOL MG/L	06551L TANNIN AND LIGNIN T&L MG/L	
SAMPLES(FLAGS)	1(1)		4(2)	5(3)	4(1)		6(3)	6(0)	ECHANTILLONS(IND.)
LOW	L.001		L.001	.0001	L.001		L.001	.34	MINIMUM
HIGH	L.001		.004	.0005	.034		.010	3.0	MAXIMUM
AVERAGE			.002*	.00026*	.015*		.005*	1.36	MOYENNE
STD.DEV.			.001*	.00015*	.014*		.004*	1.09	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.001	.0002	.005*		L.001	.5	25 <sup>e</sup>
MEDIAN 50TH			.001*	.0002	.013		.004*	.95	50 <sup>e</sup> MEDIANE
75TH			.003	.0003	.025		.007	2.4	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DB0001** LAT. **57 D 12M 38 S** LONG. **111 D 41M 36 S**

UTM **12 458130E 6340820 N**  
FEB 10, 1976 TO/A OCT 18, 1979

MACKAY RIVER AT HWY. 63 A0SERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>38(0)</b>	<b>38(0)</b>	<b>38(2)</b>	<b>20(0)</b>	<b>37(0)</b>	<b>21(0)</b>	<b>38(0)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	102.	60.	41.5	60.	.9	7.2	13.4	-.7	MINIMUM
HIGH	1370.	816.	493.1	180.	370.	8.6	577.0	.4	MAXIMUM
AVERAGE	392.	232.	155.5*	116.	28.1		163.3		MOYENNE
STD.DEV.	289.	169.	100.9*	36.	66.4		118.9		ECART-TYPE
PERCNT:10TH	147.	93.	70.1	70.	2.7	7.6	66.0		10 <sup>e</sup> PERCNT
25TH	193.	112.	87.1	88.	5.1	7.8	85.7		25 <sup>e</sup>
MEDIAN 50TH	275.	159.	117.2	115.	8.7	8.1	126.9	-.5	50 <sup>e</sup> MEDIANE
75TH	520.	330.	188.5	140.	13.0	8.3	195.4		75 <sup>e</sup>
90TH	895.	522.	327.5	170.	61.	8.3	363.4		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>38(0)</b>	<b>38(0)</b>	<b>38(0)</b>	<b>38(0)</b>	<b>38(17)</b>	<b>38(17)</b>	<b>38(0)</b>	<b>38(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	.5	6.7	11.00	3.4	0.	16.	1.8	1.2	MINIMUM
HIGH	6.2	140.0	120.0	47.0	Q0.	703.	57.0	100.0	MAXIMUM
AVERAGE	1.8	34.5	38.89	14.2	0.*	199.*	10.9	33.6	MOYENNE
STD.DEV.	1.2	31.1	24.57	9.7	0.*	145.*	12.5	27.9	ECART-TYPE
PERCNT:10TH	.7	10.5	18.50	5.8	0.	Q80.	2.1	10.2	10 <sup>e</sup> PERCNT
25TH	.9	14.5	22.5	7.3	0.	Q104.	2.8	11.4	25 <sup>e</sup>
MEDIAN 50TH	1.5	21.3	30.35	10.5	0.	155.	5.7	20.3	50 <sup>e</sup> MEDIANE
75TH	2.5	50.0	45.00	18.7	Q0.	Q238.	13.	56.	75 <sup>e</sup>
90TH	3.3	80.0	81.0	28.0	Q0.	443.	28.5	77.5	90 <sup>e</sup>
SECONDARY CODE	02L 03L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL	07110L NITROGEN DISSOLVED	07206L NITROGEN DISSOLVED	07555L NITROGEN DISSOLVED	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	KJELDAHL N MG/L	NO3 & NO2 N MG/L	NITRITE N MG/L	AMMONIA N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>35(0)</b>	<b>35(6)</b>	<b>17(3)</b>	<b>34(1)</b>	<b>3(0)</b>	<b>35(1)</b>	<b>35(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	.31	L.003	L.003	L.002	.72	L.003	.024		MINIMUM
HIGH	4.20	.694	.021	.50	1.2	.100	.260		MAXIMUM
AVERAGE	1.354	.127*	.007*	.086*	.94	.031*	.083		MOYENNE
STD.DEV.	.709	.191*	.005*	.090*	.24	.027*	.054		ECART-TYPE
PERCNT:10TH	.69	.003	L.003	.018		.006	.040		10 <sup>e</sup> PERCNT
25TH	.88	.007	.003	.034		.010	.046		25 <sup>e</sup>
MEDIAN 50TH	1.18	.02	.006	.064	.9	.022	.063		50 <sup>e</sup> MEDIANE
75TH	1.70	.27	.011	.11		.045	.096		75 <sup>e</sup>
90TH	2.10	.400	.014	.16		.076	.140		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DB0001 LAT. 57 D 12 M 38 S LONG. 111 D 41 M 36 S

UTM 12 458130E 6340820 N  
FEB 10 1976 TO/A OCT 18 1979

MACKAY RIVER AT HWY. 63 A0SERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SIO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	38(0)	38(0)	34(0)	37(0)	20(0)	35(0)	33(3)	21(21)	ECHANTILLONS(IND.)
LOW	1.0	9.	7.0	9.	5.6	22.	L.05	L.0	MINIMUM
HIGH	20.0	59.0	89.5	58.0	14.	220.	.30	L.0	MAXIMUM
AVERAGE	6.94	30.7	36.4	28.9	9.7	89.	.13*		MOYENNE
STD.DEV.	4.72	9.6	25.4	8.7	2.2	35.	.07*		ECART-TYPE
PERCNT:10TH	2.00	21.5	13.5	21.0	7.1	54.	.05	L.0	10 <sup>e</sup> PERCNT
25TH	3.30	24.5	16.0	24.0	8.3	68.	.08	L.0	25 <sup>e</sup>
MEDIAN 50TH	5.55	29.5	26.0	29.	8.8	85.	.12	L.0	50 <sup>e</sup> MEDIANE
75TH	9.70	34.5	55.0	32.	11.3	107.	.16	L.0	75 <sup>e</sup>
90TH	13.8	42.	74.	39.	12.5	127.	.22	L.0	90 <sup>e</sup>
SECONDARY CODE							07L 01L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	30(0)	38(3)	20(0)	5(4)	8(8)	33(21)	32(8)	30(9)	ECHANTILLONS(IND.)
LOW	.7	L1.0	16.	L.001	L.001	L.001	L.1	L.02	MINIMUM
HIGH	3.7	7.0	48.	.001	L.01	.010	2.3	.43	MAXIMUM
AVERAGE	1.98	2.8*	30.4	.0010*		.002*	.8*	.16*	MOYENNE
STD.DEV.	.66	1.8*	7.9	.0000*		.003*	.6*	.12*	ECART-TYPE
PERCNT:10TH	1.20	1.	20.0			L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	1.6	2.	25.5	L.001	L.001	L.001	.2*	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.90	2.0	31.0	L.001	L.010	L.001	.8	.18	50 <sup>e</sup> MEDIANE
75TH	2.4	3.	33.5	L.001	L.010	.002	1.0	.23	75 <sup>e</sup>
90TH	2.85	6.0	41.5			.007	1.9	.33	90 <sup>e</sup>
SECONDARY CODE						33L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)	3(3)	33(0)	38(0)	7(7)	33(25)	5(4)	32(18)	3(3)	ECHANTILLONS(IND.)
LOW	L.001	.03	.01	L.01	L.001	L.001	L.003	L.015	MINIMUM
HIGH	L.005	.59	2.60	L.05	.007	.005	.015	L.015	MAXIMUM
AVERAGE		.23	.30		.001*	.0018*	.005*		MOYENNE
STD.DEV.		.13	.52		.001*	.0018*	.004*		ECART-TYPE
PERCNT:10TH		.10	.05		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.17	.07	L.01	L.001	L.001	L.003		25 <sup>e</sup>
MEDIAN 50TH	L.005	.21	.12	L.01	L.001	L.001	L.003	L.015	50 <sup>e</sup> MEDIANE
75TH		.26	.20	L.05	L.001	L.001	.007		75 <sup>e</sup>
90TH		.39	.81		.002		.012		90 <sup>e</sup>
SECONDARY CODE	02L	06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DB0001** LAT. **57 D 12 M 38 S** LONG. **111 D 41 M 36 S**

UTM **12 458130 E 6340820 N**  
FEB 10, 1976 TO/A OCT 18, 1979

MACKAY RIVER AT HWY. 63 A0SERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	38(0)	38(0)	21(17)	38(21)	38(9)	38(3)	30(7)	31(26)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.013	.38	L.001	L.001	L.001	L.001	L.0002	L.0002	<b>MINIMUM</b>
<b>HIGH</b>	.29	4.70	.006	.030	.180	.042	.0130	.0013	<b>MAXIMUM</b>
<b>AVERAGE</b>	.056	1.67	.002*	.003*	.009*	.010*	.0014*	.0004*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.053	1.08	.001*	.005*	.029*	.010*	.0025*	.0002*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.016	.71	L.002	L.001	L.001	.001	.0003	L.0002	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.027	.83	L.002	.001	.001	.003	L.0005	L.0002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.040	1.28	L.002	L.002	.003	.006	.0008	L.0002	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.062	2.25	L.002	.002	.006	.014	.0011	L.0005	<b>75<sup>e</sup></b>
<b>90TH</b>	.089	2.85	.003	.006	.014	.021	.0021	.0005	<b>90<sup>e</sup></b>
SECONDARY CODE	01L	01L	01L	01L	05L 06L	01L 04L	01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>	2(1)	2(2)	11(9)	4(4)	21(20)	1(1)	2(2)	35(29)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.00	L.10	L.00	L.001	L.001	L.0	L.1	L.0001	<b>MINIMUM</b>
<b>HIGH</b>	.15	L.10	.01	L.30	.001	L.0	L.1	.0021	<b>MAXIMUM</b>
<b>AVERAGE</b>	.08*		.00*		.001*			.0002*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.11*		.00*		.000*			.0004*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			L.00		L.001			L.0001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			.00	L.001	L.001			L.0001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.08*	L.10	L.01	L.150	L.001		L.0	L.0001	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			L.01	L.300	L.001			L.0001	<b>75<sup>e</sup></b>
<b>90TH</b>			L.01		L.001			.0006	<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTRABLE	10551L RESIDUE FIXED FILTRABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	38(25)	35(0)	21(0)	21(2)	19(0)	38(0)	37(0)	36(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.002	2.	0.	0.	100.	0.	71.	51.	<b>MINIMUM</b>
<b>HIGH</b>	.048	8.	350.	G2400.	20000.	547.	862.	781.	<b>MAXIMUM</b>
<b>AVERAGE</b>	.006*	3.	26.	162.*	3194.	44.	253.	198.	<b>MOYENNE</b>
<b>STD.DEV.</b>	.009*	1.	76.	520.*	5056.	104.	186.	165.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.002	2.	0.	1.	168.	2.	102.	73.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.002	2.	2.	5.	320.	4.	123.	93.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.002	2.	3.	17.	1100.	10.	175.	127.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.005	2.	7.	70.	3600.	24.	330.	231.	<b>75<sup>e</sup></b>
<b>90TH</b>	.010	4.	49.	G210.	12000.	149.	584.	503.	<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DB0002 LAT. 57 D 10 M 12 S LONG. 111 D 47 M 38 S

UTM 12 452000E 6336370 N  
OCT 09 1976 TO/A MAY 03 1978DOVER RIVER - 2 MILES ABOVE CONFLUENCE  
WITH MACKAY RIVER - AT WSC GAUGE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	17(0)	16(0)	17(0)	17(0)	15(0)	11(0)	17(0)		ECHANTILLONS(IND.)
LOW	120.	82.	56.9	25.	1.7	7.5	67.2		MINIMUM
HIGH	920.	551.	339.4	180.	63.5	8.5	462.2		MAXIMUM
AVERAGE	564.	334.	216.7	86.	14.1		286.1		MOYENNE
STD.DEV.	224.	146.	88.0	45.	15.0		116.1		ECART-TYPE
PERCNT:10TH	370.	207.	124.8	40.	3.2	7.6	161.0		10 <sup>e</sup> PERCNT
25TH	420.	222.	146.7	45.	5.0	7.8	204.7		25 <sup>e</sup>
MEDIAN 50TH	499.	287.	191.0	90.	8.4	8.2	268.0		50 <sup>e</sup> MEDIANE
75TH	790.	483.	314.9	110.	18.0	8.3	403.6		75 <sup>e</sup>
90TH	890.	541.	333.1	160.	21.0	8.4	436.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	17(0)	17(0)	17(0)	17(0)	17(0)	17(0)	16(0)	17(0)	ECHANTILLONS(IND.)
LOW	1.4	11.0	14.2	5.2	0.	82.	2.1	6.5	MINIMUM
HIGH	5.0	92.5	84.0	33.0	6.	563.	14.5	83.0	MAXIMUM
AVERAGE	3.3	56.1	52.92	20.5	0.	348.	8.7	31.4	MOYENNE
STD.DEV.	.9	25.2	21.03	8.7	1.	141.	3.8	22.7	ECART-TYPE
PERCNT:10TH	2.2	32.0	31.5	11.2	0.	196.	3.7	7.8	10 <sup>e</sup> PERCNT
25TH	2.9	37.0	37.0	13.5	0.	250.	6.3	14.9	25 <sup>e</sup>
MEDIAN 50TH	3.3	46.5	46.0	18.5	0.	327.	8.4	21.5	50 <sup>e</sup> MEDIANE
75TH	3.9	83.5	75.0	28.0	0.	487.	11.3	50.0	75 <sup>e</sup>
90TH	4.8	87.5	82.0	32.5	3.	531.	14.5	62.0	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L	
SAMPLES(FLAGS)	17(0)	17(4)	6(1)	17(1)		17(0)	17(0)		ECHANTILLONS(IND.)
LOW	.50	L.003	L.003	L.01		.005	.03		MINIMUM
HIGH	2.12	.500	.012	.25		.039	.30		MAXIMUM
AVERAGE	1.238	.137*	.006*	.078*		.017	.091		MOYENNE
STD.DEV.	.395	.174*	.003*	.064*		.009	.067		ECART-TYPE
PERCNT:10TH	.75	L.003		.02		.010	.034		10 <sup>e</sup> PERCNT
25TH	1.01	L.01	.003	.03		.010	.06		25 <sup>e</sup>
MEDIAN 50TH	1.23	.04	.005	.07		.013	.069		50 <sup>e</sup> MEDIANE
75TH	1.44	.23	.006	.09		.02	.104		75 <sup>e</sup>
90TH	1.76	.450		.20		.03	.20		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DB0002** LAT. **57 D 10 M 12 S** LONG. **111 D 47 M 38 S**

UTM **12 452000E 6336370 N**  
OCT 09, 1976 TO/À MAY 03, 1978

DOVER RIVER - 2 MILES ABOVE CONFLUENCE  
WITH MACKAY RIVER - AT WSC GAUGE

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>17(0)</b>	<b>17(0)</b>	<b>17(0)</b>	<b>17(0)</b>	<b>10(0)</b>	<b>17(0)</b>	<b>17(0)</b>	<b>3(3)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>2.1</b>	<b>14.</b>	<b>11.5</b>	<b>12.0</b>	<b>5.8</b>	<b>33.</b>	<b>.08</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>15.7</b>	<b>47.</b>	<b>91.5</b>	<b>43.</b>	<b>13.6</b>	<b>137.</b>	<b>.35</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>8.85</b>	<b>26.0</b>	<b>56.8</b>	<b>24.2</b>	<b>9.3</b>	<b>75.</b>	<b>.22</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>5.15</b>	<b>9.1</b>	<b>24.1</b>	<b>8.1</b>	<b>2.2</b>	<b>32.</b>	<b>.08</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>3.3</b>	<b>14.5</b>	<b>30.</b>	<b>12.0</b>	<b>6.6</b>	<b>36.</b>	<b>.08</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>4.4</b>	<b>19.5</b>	<b>42.0</b>	<b>19.5</b>	<b>7.7</b>	<b>47.</b>	<b>.16</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>6.9</b>	<b>26.</b>	<b>56.0</b>	<b>24.5</b>	<b>9.2</b>	<b>69.</b>	<b>.21</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>14.7</b>	<b>28.5</b>	<b>78.5</b>	<b>27.</b>	<b>10.4</b>	<b>92.</b>	<b>.28</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>15.7</b>	<b>44.</b>	<b>90.5</b>	<b>37.</b>	<b>12.5</b>	<b>132.</b>	<b>.33</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
<b>SAMPLES(FLAGS)</b>	<b>17(0)</b>	<b>17(7)</b>		<b>3(3)</b>	<b>7(6)</b>	<b>13(9)</b>	<b>13(5)</b>	<b>17(6)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.6</b>	<b>L1.0</b>		<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.30</b>	<b>7.0</b>		<b>L.001</b>	<b>L.01</b>	<b>.023</b>	<b>1.7</b>	<b>.21</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.42</b>	<b>2.0*</b>			<b>.005*</b>	<b>.003*</b>	<b>.6*</b>	<b>.11*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.57</b>	<b>1.9*</b>			<b>.005*</b>	<b>.006*</b>	<b>.6*</b>	<b>.08*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.6</b>	<b>L1.0</b>				<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.05</b>	<b>L1.0</b>			<b>.001</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.40</b>	<b>1.0</b>		<b>L.001</b>	<b>L.002</b>	<b>L.001</b>	<b>.4</b>	<b>.14</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.9</b>	<b>1.5</b>			<b>L.01</b>	<b>.001</b>	<b>.7</b>	<b>.19</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.2</b>	<b>6.0</b>				<b>.004</b>	<b>1.6</b>	<b>.21</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		<b>17(0)</b>	<b>17(0)</b>	<b>8(8)</b>	<b>16(14)</b>	<b>1(1)</b>	<b>17(12)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.10</b>	<b>.07</b>	<b>L.01</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.61</b>	<b>.96</b>	<b>L.05</b>	<b>.002</b>	<b>L.001</b>	<b>.013</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.33</b>	<b>.26</b>		<b>.001*</b>		<b>.004*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.12</b>	<b>.23</b>		<b>.000*</b>		<b>.002*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.21</b>	<b>.07</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.25</b>	<b>.12</b>	<b>L.010</b>	<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.34</b>	<b>.16</b>	<b>L.050</b>	<b>L.001</b>		<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.37</b>	<b>.29</b>	<b>L.050</b>	<b>L.001</b>		<b>.003</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.47</b>	<b>.61</b>		<b>.001</b>		<b>.006</b>		<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DB0002 LAT 57° 10' N 12° LONG 111° 47' W 38°

DATE 12 452000 6336370  
OCT 09 1976 TO/A MAY 03 1978DOVER RIVER - 2 MILES ABOVE CONFLUENCE  
WITH MACKAY RIVER - AT WSC GAUGE

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	31104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	17(0)	17(0)	17(16)	17(12)	17(1)	17(0)	16(8)	16(11)	ECHANTILLONS(IND.)
LOW	.022	.63	L.001	L.001	L.001	.002	L.0002	L.0002	MINIMUM
HIGH	.135	2.70	.004	.012	.020	.067	.007	.0007	MAXIMUM
AVERAGE	.058	1.48	.002*	.003*	.006*	.013	.0009*	.0003*	MOYENNE
STD.DEV.	.036	.60	.001*	.003*	.006*	.015	.0017*	.0002*	ECART-TYPE
PERCNT:10TH	.022	.65	L.001	L.002	.001	.005	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.032	1.15	L.002	L.002	.003	.006	.0002*	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.046	1.37	L.002	L.002	.003	.009	.0004	.0003	50 <sup>e</sup> MEDIANE
75TH	.07	1.70	L.002	.002	.007	.014	.0006*	L.0005	75 <sup>e</sup>
90TH	.115	2.55	L.002	.006	.014	.015	.0016	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			8(8)		17(16)			17(15)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.002			.0003	MAXIMUM
AVERAGE					.001*			.0001*	MOYENNE
STD.DEV.					.000*			.0001*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.00		L.001			L.0001	75 <sup>e</sup>
90TH					L.001			.0003	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO. 100ML	MPN NO. 100ML	NO. ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	17(11)	17(0)	7(0)	7(0)	7(0)	17(0)	17(0)	16(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	5.	100.	4.	79.	123.	MINIMUM
HIGH	.024	8.	49.	130.	8700.	112.	575.	519.	MAXIMUM
AVERAGE	.004*	3.	8.	36.	2883.	25.	359.	323.	MOYENNE
STD.DEV.	.006*	2.	18.	49.	3217.	30.	152.	141.	ECART-TYPE
PERCNT:10TH	L.002	2.		5.		5.	220.	173.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	5.	130.	8.	239.	197.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	0.	13.	2000.	12.	329.	294.	50 <sup>e</sup> MEDIANE
75TH	.002	4.	2.	79.	4500.	23.	521.	466.	75 <sup>e</sup>
90TH	.014	4.				79.	558.	508.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DB0003** LAT. **56 D 51M 20 S** LONG. **112 D 42M 40 S**UTM **12 395660 E 6302390 N**  
FEB 12, 1976 TO/A FEB 07, 1979DUNKIRK RIVER NEAR FORT MACKAY - ON  
RIGHT BANK 52 AIR MILES NORTH WEST OF

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	29(0)	29(0)	29(0)	20(0)	26(0)	2(0)	29(0)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>83.</b>	<b>62.</b>	<b>47.2</b>	<b>50.</b>	<b>2.1</b>	<b>6.9</b>	<b>39.5</b>	<b>-.1</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>595.</b>	<b>378.</b>	<b>267.1</b>	<b>180.</b>	<b>86.</b>	<b>7.3</b>	<b>273.0</b>	<b>-.1</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>313.</b>	<b>190.</b>	<b>152.8</b>	<b>103.</b>	<b>15.0</b>		<b>144.4</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>158.</b>	<b>95.</b>	<b>72.4</b>	<b>41.</b>	<b>22.0</b>		<b>73.1</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>141.</b>	<b>81.</b>	<b>65.1</b>	<b>53.</b>	<b>4.0</b>		<b>61.5</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>200.</b>	<b>119.</b>	<b>99.1</b>	<b>70.</b>	<b>5.0</b>		<b>96.8</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>233.</b>	<b>145.</b>	<b>123.6</b>	<b>103.</b>	<b>7.9</b>	<b>7.1</b>	<b>125.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>462.</b>	<b>265.</b>	<b>218.0</b>	<b>135.</b>	<b>11.6</b>		<b>193.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>550.</b>	<b>326.</b>	<b>256.7</b>	<b>155.</b>	<b>37.8</b>		<b>266.0</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HC03 MG/L	CL MG/L	S04 MG/L	
<b>SAMPLES(FLAGS)</b>	29(0)	29(0)	29(0)	29(0)	29(7)	29(7)	29(0)	29(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.4</b>	<b>5.4</b>	<b>12.8</b>	<b>3.7</b>	<b>0.</b>	<b>48.</b>	<b>.3</b>	<b>9.2</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>3.5</b>	<b>31.8</b>	<b>72.0</b>	<b>22.5</b>	<b>13.</b>	<b>333.</b>	<b>4.4</b>	<b>159.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.6</b>	<b>15.7</b>	<b>40.60</b>	<b>12.5</b>	<b>0.*</b>	<b>175.*</b>	<b>1.5</b>	<b>31.4</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.9</b>	<b>8.6</b>	<b>19.24</b>	<b>6.0</b>	<b>2.*</b>	<b>88.*</b>	<b>.8</b>	<b>29.4</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.5</b>	<b>5.8</b>	<b>17.0</b>	<b>5.6</b>	<b>0.</b>	<b>Q75.</b>	<b>.7</b>	<b>12.5</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.9</b>	<b>9.0</b>	<b>26.5</b>	<b>7.7</b>	<b>0.</b>	<b>118.</b>	<b>1.1</b>	<b>16.8</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.4</b>	<b>12.8</b>	<b>33.5</b>	<b>10.0</b>	<b>0.</b>	<b>152.</b>	<b>1.5</b>	<b>22.7</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.2</b>	<b>24.5</b>	<b>58.00</b>	<b>17.8</b>	<b>Q0.</b>	<b>235.</b>	<b>1.6</b>	<b>35.2</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>3.0</b>	<b>29.1</b>	<b>69.0</b>	<b>21.2</b>	<b>Q0.</b>	<b>324.</b>	<b>2.2</b>	<b>48.5</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
<b>SAMPLES(FLAGS)</b>	27(0)	28(8)	8(2)	25(1)	1(0)	28(0)	27(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.58</b>	<b>L.003</b>	<b>L.003</b>	<b>L.01</b>	<b>1.2</b>	<b>.008</b>	<b>.046</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>2.41</b>	<b>.470</b>	<b>.011</b>	<b>.41</b>	<b>1.2</b>	<b>.18</b>	<b>.50</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.373</b>	<b>.134*</b>	<b>.006*</b>	<b>.108*</b>		<b>.038</b>	<b>.133</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.528</b>	<b>.157*</b>	<b>.004*</b>	<b>.079*</b>		<b>.045</b>	<b>.116</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.80</b>	<b>L.003</b>		<b>.040</b>		<b>.013</b>	<b>.056</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.00</b>	<b>.008*</b>	<b>.003*</b>	<b>.07</b>		<b>.015</b>	<b>.07</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.30</b>	<b>.064</b>	<b>.005</b>	<b>.097</b>		<b>.020</b>	<b>.091</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.66</b>	<b>.250</b>	<b>.010</b>	<b>.12</b>		<b>.032</b>	<b>.149</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.26</b>	<b>.408</b>		<b>.19</b>		<b>.092</b>	<b>.24</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DB0003 LAT. 56 D 51M 20 S LONG. 112 D 42M 40 S

UTM 12 395660E 6302390 N  
FEB 12 1976 TO/A FEB 07 1979DUNKIRK RIVER NEAR FORT MACKAY - ON  
RIGHT BANK 52 AIR MILES NORTH WEST OF

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COO	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	29(0)	29(0)	29(0)	28(0)	2(0)	28(0)	29(2)	12(11)	ECHANTILLONS(IND.)
LOW	1.50	17.	7.0	15.	2.9	37.	L.05	L.0	MINIMUM
HIGH	14.50	44.	61.5	43.0	3.7	290.	.24	.1	MAXIMUM
AVERAGE	8.04	29.5	28.7	27.9	3.3	90.	.12*	.0*	MOYENNE
STD.DEV.	4.14	7.3	15.5	7.2	.6	54.	.06*	.0*	ECART-TYPE
PERCNT:10TH	3.0	21.0	11.0	20.5		50.	.06	L.0	10 <sup>e</sup> PERCNT
25TH	3.8	24.	18.	22.3		61.	.08	L.0	25 <sup>e</sup>
MEDIAN 50TH	8.7	28.0	24.5	27.5	3.3	80.	.11	L.0	50 <sup>e</sup> MEDIANE
75TH	12.0	33.0	42.5	31.3		93.	.15	L.0	75 <sup>e</sup>
90TH	12.7	43.5	50.5	42.		138.	.22	L.0	90 <sup>e</sup>
SECONDARY CODE							07L 01L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHATS LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	28(0)	29(5)	9(0)	3(3)	6(6)	21(13)	20(7)	27(7)	ECHANTILLONS(IND.)
LOW	.7	L.0	21.	L.001	L.001	L.001	L.1	L.02	MINIMUM
HIGH	4.0	11.5	56.	L.001	L.01	.014	1.2	.31	MAXIMUM
AVERAGE	1.73	2.7*	33.4			.003*	.4*	.14*	MOYENNE
STD.DEV.	.68	2.3*	10.7			.004*	.4*	.10*	ECART-TYPE
PERCNT:10TH	.85	L.0				L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	1.40	1.0	26.		L.002	L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	1.60	2.	33.	L.001	L.010	L.001	.2	.16	50 <sup>e</sup> MEDIANE
75TH	2.10	3.0	37.		L.01	.001	.7	.23	75 <sup>e</sup>
90TH	2.55	6.0				.008	1.0	.27	90 <sup>e</sup>
SECONDARY CODE						33L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	1(1)	19(0)	29(0)	7(7)	26(23)	3(2)	27(14)	1(1)	ECHANTILLONS(IND.)
LOW	L.005	.07	.04	L.01	L.001	L.001	L.003	L.015	MINIMUM
HIGH	L.005	.39	.81	L.05	.002	.002	.014	L.015	MAXIMUM
AVERAGE		.19	.17		.001*	.0013*	.006*		MOYENNE
STD.DEV.		.08	.17		.000*	.0006*	.004*		ECART-TYPE
PERCNT:10TH		.08	.05		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.12	.08	L.05	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.20	.11	L.05	L.001	L.001	L.003		50 <sup>e</sup> MEDIANE
75TH		.26	.23	L.05	L.001		.010		75 <sup>e</sup>
90TH		.28	.43		.001		.012		90 <sup>e</sup>
SECONDARY CODE		36L	32L		32L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DB0003** LAT. **56 D 51 M 20 S** LONG. **112 D 42 M 40 S**

UTM **12 395660 E 6302390 N**  
FEB 12, 1976 TO/A FEB 07, 1979

DUNKIRK RIVER NEAR FORT MACKAY - ON  
RIGHT BANK 52 AIR MILES NORTH WEST OF

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	29(0)	29(0)	20(20)	29(21)	29(6)	29(2)	26(8)	27(24)	<b>ECHANTILLONS(IND.)</b>
LOW	.024	1.09	L.001	L.001	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	.52	5.60	L.002	.006	.017	.045	.0024	.0007	MAXIMUM
AVERAGE	.106	2.32		.002*	.004*	.011*	.0008*	.0003*	MOYENNE
STD.DEV.	.124	1.30		.001*	.004*	.012*	.0005*	.0002*	ECART-TYPE
PERCNT:10TH	.031	1.10	L.002	L.001	L.001	.001	.0004	L.0002	10 <sup>e</sup> PERCNT
25TH	.046	1.25	L.002	L.002	.001	.004	L.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.061	1.90	L.002	L.002	.002	.008	.0008	L.0002	50 <sup>e</sup> MEDIANE
75TH	.110	2.70	L.002	L.002	.003	.009	.001	L.0005	75 <sup>e</sup>
90TH	.23	4.70	L.002	.003	.008	.032	.0012	L.0005	90 <sup>e</sup>
SECONDARY CODE	01L	01L	01L	01L	05L 06L	01L 04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>	1(0)	1(1)	11(11)		20(17)	1(1)	1(0)	28(23)	<b>ECHANTILLONS(IND.)</b>
LOW	.29	L.10	L.00		L.001	L.0	.1	L.0001	MINIMUM
HIGH	.29	L.10	L.01		.004	L.0	.1	.0003	MAXIMUM
AVERAGE					.001*			.0001*	MOYENNE
STD.DEV.					.001*			.0001*	ECART-TYPE
PERCNT:10TH			L.00		L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.01		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			.0001*	75 <sup>e</sup>
90TH			L.01		.002			.0003	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	29(25)	27(0)	8(0)	8(0)	9(0)	29(1)	28(0)	27(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.002	2.	0.	2.	270.	L0.	66.	49.	MINIMUM
HIGH	.009	8.	33.	49.	40000.	124.	400.	348.	MAXIMUM
AVERAGE	.002*	3.	12.	21.	16897.	18.*	198.	150.	MOYENNE
STD.DEV.	.001*	2.	12.	19.	46203.	31.*	101.	84.	ECART-TYPE
PERCNT:10TH	L.002	2.				3.	96.	63.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	2.	6.	320.	4.	125.	83.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	9.	15.	550.	6.	152.	113.	50 <sup>e</sup> MEDIANE
75TH	L.002	4.	20.	36.	3000.	13.	301.	227.	75 <sup>e</sup>
90TH	L.004	4.				94.	345.	279.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DB0004 LAT. 56 D 53M 55 S LONG. 112 D 10M 15 S

UTM 12 428690 6306490  
SEP 13 1976 TO: A FEB 09 1978THICKWOOD CREEK - 1 MILE ABOVE  
CONFLUENCE WITH MACKAY RIVER - AT WSC

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL UNITS	JTU	PH UNITS	M	PH UNITS	
SAMPLES(FLAGS)	15(0)	15(0)	15(0)	15(0)	12(0)	1(0)	15(0)		ECHANTILLONS(IND.)
LOW	83.	43.	37.7	85.	1.3	7.3	35.2		MINIMUM
HIGH	360.	203.	181.6	220.	69.0	7.3	182.0		MAXIMUM
AVERAGE	159.	92.	84.3	156.	11.3		81.5		MOYENNE
STD.DEV.	95.	54.	49.0	34.	18.5		50.4		ECART-TYPE
PERCNT:10TH	83.	46.	39.4	110.	1.9		40.0		10 <sup>e</sup> PERCNT
25TH	87.	55.	51.8	130.	3.0		48.7		25 <sup>e</sup>
MEDIAN 50TH	110.	69.	63.8	160.	6.3		56.3		50 <sup>e</sup> MEDIANE
75TH	260.	149.	131.4	170.	9.8		139.6		75 <sup>e</sup>
90TH	318.	187.	174.5	200.	11.6		172.6		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	15(0)	15(0)	15(0)	15(0)	15(0)	15(0)	15(0)	15(0)	ECHANTILLONS(IND.)
LOW	.1	2.0	9.5	3.4	0.	43.	.2	.8	MINIMUM
HIGH	2.9	14.0	46.0	16.2	0.	222.	4.3	10.3	MAXIMUM
AVERAGE	.8	4.7	21.30	7.6	0.	99.	1.3	7.2	MOYENNE
STD.DEV.	.7	3.7	12.25	4.5	0.	61.	1.0	2.9	ECART-TYPE
PERCNT:10TH	.2	2.0	10.0	3.5	0.	49.	.3	3.2	10 <sup>e</sup> PERCNT
25TH	.4	2.2	12.5	4.5	0.	59.	.6	4.2	25 <sup>e</sup>
MEDIAN 50TH	.5	3.0	16.5	5.5	0.	69.	1.0	8.3	50 <sup>e</sup> MEDIANE
75TH	1.3	7.7	32.0	12.5	0.	170.	1.6	9.8	75 <sup>e</sup>
90TH	1.5	10.9	44.0	15.7	0.	210.	1.9	10.2	90 <sup>e</sup>
SECONDARY CODE	03L 02L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L	
SAMPLES(FLAGS)	15(0)	15(6)	3(1)	15(1)		15(0)	15(0)		ECHANTILLONS(IND.)
LOW	.3	L.001	L.003	L.01		.01	.022		MINIMUM
HIGH	2.05	1.0	.012	.49		.04	.24		MAXIMUM
AVERAGE	1.279	.107*	.007*	.147*		.017	.088		MOYENNE
STD.DEV.	.569	.252*	.005*	.169*		.009	.069		ECART-TYPE
PERCNT:10TH	.43	L.001		.01		.01	.03		10 <sup>e</sup> PERCNT
25TH	.95	L.003		.05		.01	.044		25 <sup>e</sup>
MEDIAN 50TH	1.18	.036	.007	.06		.013	.05		50 <sup>e</sup> MEDIANE
75TH	1.90	.082		.29		.020	.15		75 <sup>e</sup>
90TH	1.93	.18		.47		.03	.20		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DB0004** LAT. **56 D 53M 55 S** LONG. **112 D 10M 15 S**UTM **12 428690 E 6306490 N**

SEP 13, 1976 TO/A FEB 09, 1978

THICKWOOD CREEK - 1 MILE ABOVE  
CONFLUENCE WITH MACKAY RIVER - AT WSC

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>15(0)</b>	<b>15(0)</b>	<b>15(0)</b>	<b>14(0)</b>	<b>1(0)</b>	<b>15(0)</b>	<b>15(1)</b>	<b>4(4)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.0</b>	<b>18.</b>	<b>5.0</b>	<b>18.</b>	<b>2.0</b>	<b>46.</b>	<b>.03</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>17.1</b>	<b>65.5</b>	<b>36.</b>	<b>38.0</b>	<b>2.0</b>	<b>214.</b>	<b>.15</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>7.39</b>	<b>30.2</b>	<b>17.3</b>	<b>27.1</b>		<b>96.</b>	<b>.07*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>5.53</b>	<b>10.7</b>	<b>10.6</b>	<b>5.4</b>		<b>39.</b>	<b>.03*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.3</b>	<b>22.</b>	<b>7.</b>	<b>21.</b>		<b>64.</b>	<b>.04</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>3.4</b>	<b>26.5</b>	<b>9.5</b>	<b>24.5</b>		<b>74.</b>	<b>.05</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>5.4</b>	<b>28.</b>	<b>14.5</b>	<b>27.3</b>		<b>87.</b>	<b>.06</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>14.4</b>	<b>31.5</b>	<b>29.5</b>	<b>28.</b>		<b>114.</b>	<b>.09</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>16.0</b>	<b>36.5</b>	<b>34.5</b>	<b>36.5</b>		<b>126.</b>	<b>.10</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>15(0)</b>	<b>15(0)</b>		<b>4(4)</b>	<b>4(4)</b>	<b>9(5)</b>	<b>10(6)</b>	<b>15(6)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.20</b>	<b>1.0</b>		<b>L.001</b>	<b>L.002</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.75</b>	<b>14.0</b>		<b>L.0010</b>	<b>L.01</b>	<b>.028</b>	<b>4.4</b>	<b>.23</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.22</b>	<b>4.5</b>				<b>.006*</b>	<b>.6*</b>	<b>.08*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.43</b>	<b>3.2</b>				<b>.009*</b>	<b>1.3*</b>	<b>.07*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.65</b>	<b>2.0</b>					<b>L.1</b>	<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.1</b>	<b>2.5</b>		<b>L.0010</b>	<b>L.006</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.3</b>	<b>3.5</b>		<b>L.0010</b>	<b>L.010</b>	<b>L.001</b>	<b>L.1</b>	<b>.06</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.55</b>	<b>5.5</b>		<b>L.0010</b>	<b>L.010</b>	<b>.006</b>	<b>.4</b>	<b>.15</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.75</b>	<b>8.0</b>					<b>2.5</b>	<b>.15</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>	<b>1(1)</b>	<b>15(0)</b>	<b>15(1)</b>	<b>5(5)</b>	<b>13(11)</b>	<b>2(2)</b>	<b>15(13)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>	<b>.03</b>	<b>L.01</b>	<b>L.05</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>L.001</b>	<b>.33</b>	<b>.50</b>	<b>L.05</b>	<b>.003</b>	<b>L.001</b>	<b>.019</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.13</b>	<b>.14*</b>		<b>.001*</b>		<b>.005*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.08</b>	<b>.12*</b>		<b>.001*</b>		<b>.005*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.04</b>	<b>.05</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.07</b>	<b>.07</b>	<b>L.05</b>	<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.13</b>	<b>.09</b>	<b>L.05</b>	<b>L.001</b>	<b>L.0010</b>	<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.17</b>	<b>.23</b>	<b>L.05</b>	<b>L.001</b>		<b>L.003</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.21</b>	<b>.26</b>		<b>.001</b>		<b>.016</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	02L	06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DB0004 LAT. 56 D 53 M 55 S LONG. 112 D 10 M 15 S

UTM 12 428690E 6306490N  
SEP 13 1976 TO/A FEB 09 1978THICKWOOD CREEK - 1 MILE ABOVE  
CONFLUENCE WITH MACKAY RIVER AT WSC

	253041 MANGANESE EXTRBLE. MN MG/L	263041 IRON EXTRBLE. FE MG/L	271021 COBALT EXTRBLE. CO MG/L	281021 NICKEL EXTRBLE. NI MG/L	291011 COPPER EXTRBLE. CU MG/L	301051 ZINC EXTRBLE. ZN MG/L	311041 ARSENIC DISSOLVED AS MG/L	341021 SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	15(0)	15(0)	15(15)	15(13)	15(3)	15(0)	13(5)	12(10)	ECHANTILLONS(IND.)
LOW	.019	.08	L.002	L.002	L.001	.004	L.0002	L.0002	MINIMUM
HIGH	.750	6.5	L.002	.004	.017	.068	.003	.0005	MAXIMUM
AVERAGE	.185	1.88		.002*	.004*	.014	.0007*	.0003*	MOYENNE
STD.DEV.	.258	2.02		.001*	.005*	.016	.0008*	.0002*	ECART-TYPE
PERCNT:10TH	.020	.17	L.002	L.002	L.001	.004	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.024	.61	L.002	L.002	.001	.006	.0003	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.04	.75	L.002	L.002	.003	.007	L.0005	.0002*	50 <sup>e</sup> MEDIANE
75TH	.44	4.40	L.002	L.002	.007	.017	.0009	L.0005	75 <sup>e</sup>
90TH	.67	4.40	L.002	.003	.012	.027	.0015	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	383011 STRONTIUM EXTRBLE. SR MG/L	423011 MOLYBDENUM EXTRBLE. MO MG/L	473011 SILVER EXTRBLE. AG MG/L	481011 CADMIUM DISSOLVED CD MG/L	483011 CADMIUM EXTRBLE. CD MG/L	513011 ANTIMONY EXTRBLE. SB MG/L	563011 BARIUM EXTRBLE. BA MG/L	800111 MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			8(8)		15(14)			15(14)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.001			.0007	MAXIMUM
AVERAGE					.001*			.0001*	MOYENNE
STD.DEV.					.000*			.0002*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.00		L.001			L.0001	75 <sup>e</sup>
90TH					L.001			L.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	823011 LEAD EXTRBLE. PB MG/L	020011 ODOUR THRESHOLD NUMBER TON	360111 COLIFORMS FECAL MPN NO 100ML	360011 COLIFORMS TOTAL MPN NO 100ML	369001 STD. PLATE COUNT 20 DEG.C. BACT DENS NO. ML	104011 RESIDUE NONFILTR. MG/L	104511 RESIDUE FILTERABLE MG/L	105511 RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	15(13)	15(0)	2(0)	2(0)	2(0)	15(0)	15(0)	15(1)	ECHANTILLONS(IND.)
LOW	L.002	2.	2.	8.	260.	1.	48.	L0.	MINIMUM
HIGH	.012	8.	2.	13.	41000.	92.	232.	173.	MAXIMUM
AVERAGE	.003*	3.	2.	10.	20630.	12.	101.	65.	MOYENNE
STD.DEV.	.003*	2.	0.	4.	28808.	23.	63.	51.	ECART-TYPE
PERCNT:10TH	L.002	2.				2.	55.	23.	10 <sup>e</sup> PERCNT
25TH	L.002	2.				3.	59.	32.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	2.	10.	20630.	4.	68.	39.	50 <sup>e</sup> MEDIANE
75TH	L.002	2.				12.	168.	107.	75 <sup>e</sup>
90TH	.004	4.				15.	215.	163.	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DB0005** LAT. **57 D 10 M 0 S** LONG. **111 D 45 M 21 S**UTM **12 454300 E 6336000 N**  
JUL 31, 1972 TO/A JUL 02, 1975

## MCKAY RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	8(0)	3(0)	6(0)		7(1)	8(0)	6(0)		ECHANTILLONS(IND.)
LOW	162.	170.	67.		1.5	7.6	93.		MINIMUM
HIGH	465.	304.	180.		G15.	8.3	193.		MAXIMUM
AVERAGE	290.	248.	133.5		7.2*		137.3		MOYENNE
STD.DEV.	110.	69.	39.5		5.4*		44.1		ECART-TYPE

## PERCNT:10TH

10<sup>e</sup> PERCNT

25TH

25<sup>e</sup>

## MEDIAN 50TH

50<sup>e</sup> MEDIANE

75TH

75<sup>e</sup>

90TH

90<sup>e</sup>

SECONDARY CODE

05L 04L

CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	4(0)	8(0)	5(0)	8(0)	6(0)	6(0)	8(0)	7(1)	ECHANTILLONS(IND.)
LOW	1.1	11.	32.	3.	0.	113.	2.	L10.	MINIMUM
HIGH	2.0	49.	51.	13.	0.	235.	16.	170.	MAXIMUM
AVERAGE	1.5	23.1	42.10	9.3	0.	167.	6.4	60.9*	MOYENNE
STD.DEV.	.4	13.9	8.52	3.4	0.	54.	4.2	52.6*	ECART-TYPE

## PERCNT:10TH

10<sup>e</sup> PERCNT

25TH

25<sup>e</sup>

## MEDIAN 50TH

50<sup>e</sup> MEDIANE

75TH

75<sup>e</sup>

90TH

90<sup>e</sup>

SECONDARY CODE

02L 03L

03L

03L

06L

CODE DE SECOURS

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SAMPLES(FLAGS)	5(0)	1(0)					3(0)	2(0)	ECHANTILLONS(IND.)
LOW	1.	2.7					180.	80.	MINIMUM
HIGH	300.	2.7					2374.	2066.	MAXIMUM
AVERAGE	76.						964.	1073.	MOYENNE
STD.DEV.	128.						1224.	1404.	ECART-TYPE

## PERCNT:10TH

10<sup>e</sup> PERCNT

25TH

25<sup>e</sup>

## MEDIAN 50TH

50<sup>e</sup> MEDIANE

75TH

75<sup>e</sup>

90TH

90<sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DB0005 LAT. 57 D 10 M 0 S LONG. 111 D 45 M 21 S

UTM 12 454300E 6336000 N  
JUL 31 1972 TO/A JUL 02 1975

MCKAY RIVER

	07107L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL ALCULATED N MG/L	15419L PHOSPHORUS TOTAL PHOSPHATE P MG/L	15406L PHOSPHORUS TOTAL PHOSPHATE P MG/L	08101L OXYGEN DISSOLVED DO O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	8(7)	3(3)	7(3)	1(0)	5(0)	5(0)		5(3)	ECHANTILLONS(IND.)
LOW	L.1	L.1	L.1	1.870	.2	.2		L.05	MINIMUM
HIGH	.43	L.1	2.4	1.870	4.0	4.0		.17	MAXIMUM
AVERAGE	.141*		.857*		1.180	1.180		.09*	MOYENNE
STD.DEV.	.117*		.974*		1.610	1.610		.05*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.100		L.2		.2	.2		L.05	25 <sup>e</sup>
MEDIAN 50TH	L.100	L.1	.3		.5	.5		L.05	50 <sup>e</sup> MEDIANE
75TH	L.100		2.1		1.0	1.0		.11	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	06L			06L				CODE DE SECOURS

	24003L CHROMIUM TOTAL CR MG/L	25006L MANGANESE TOTAL MN MG/L	26002L IRON TOTAL FE MG/L	26302L IRON EXTRBLE. FE MG/L	27004L COBALT TOTAL CO MG/L	28004L NICKEL TOTAL NI MG/L	29008L COPPER TOTAL CU MG/L	30006L ZINC TOTAL ZN MG/L	
SAMPLES(FLAGS)	2(1)	4(0)	5(0)	2(1)	4(2)	4(0)	4(1)	4(2)	ECHANTILLONS(IND.)
LOW	L.001	.000	.2	L.1	L.001	.002	L.001	.008	MINIMUM
HIGH	.016	1.400	45.5	1.8	.064	.070	.050	.013	MAXIMUM
AVERAGE	.008*	.358	9.800	.950*	.017*	.029	.016*	.010*	MOYENNE
STD.DEV.	.011*	.695	19.966	1.202*	.031*	.031	.023*	.002*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.000	.5		L.001	.005	.002*	.009*	25 <sup>e</sup>
MEDIAN 50TH	.008*	.015	1.0	.950*	.002*	.022	.006	L.010	50 <sup>e</sup> MEDIANE
75TH		.715	1.8		.034	.053	.029	.011*	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

	33003L ARSENIC TOTAL AS MG/L	47003L SILVER TOTAL AG MG/L	48004L CADMIUM TOTAL CD MG/L	80002L MERCURY TOTAL HG MG/L	82005L LEAD TOTAL PB MG/L	08201L OXYGEN BIOCHEM. DEMAND-BOD O2 MG/L	06531L PHENOLIC MATERIAL PHENOL MG/L	06551L TANNIN A LIGNIN TAN MG/L	
SAMPLES(FLAGS)	1(1)		4(1)	5(3)	4(1)		6(2)	6(0)	ECHANTILLONS(IND.)
LOW	L.001		L.001	.0002	L.001		L.001	1.12	MINIMUM
HIGH	L.001		.005	.0005	.030		.022	4.5	MAXIMUM
AVERAGE			.003*	.00028*	.013*		.007*	3.01	MOYENNE
STD.DEV.			.002*	.00013*	.013*		.008*	1.40	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			.001*	.0002	.002*		L.001	1.5	25 <sup>e</sup>
MEDIAN 50TH			.003	.0002	.010		.004	3.35	50 <sup>e</sup> MEDIANE
75TH			.005	.0003	.023		.008	4.25	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L		32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07DB0006** LAT. **57 D 10 M 0 S** LONG. **111 D 45 M 21 S**UTM **12 454300E 6336000 N**  
JUL 31, 1972 TO/A JUL 02, 1975

## DOVER RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	7(0)	6(1)	5(0)		5(0)	7(0)	7(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	189.	Q111.	74.		2.8	7.9	81.		<b>MINIMUM</b>
<b>HIGH</b>	550.	370.	194.		4.	8.6	262.		<b>MAXIMUM</b>
<b>AVERAGE</b>	388.	243.*	157.0		3.4		179.3		<b>MOYENNE</b>
<b>STD.DEV.</b>	148.	103.*	48.6		.6		70.7		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	220.	157.	155.		3.	8.0	91.		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	420.	240.	178.		3.	8.3	182.		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	550.	340.	184.		4.	8.3	240.		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	3(0)	7(0)	5(0)	7(0)	7(0)	7(0)	7(0)	6(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.9	15.	24.	3.	0.	99.	1.	L10.	<b>MINIMUM</b>
<b>HIGH</b>	2.6	56.	68.	13.	3.	319.	17.	80.	<b>MAXIMUM</b>
<b>AVERAGE</b>	1.8	36.4	44.30	9.3	0.	218.	9.6	41.3*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.9	15.5	19.23	4.7	1.	86.	5.9	24.2*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		26.	25.	4.	0.	111.	5.	23.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	1.8	33.	50.5	13.	0.	222.	9.	41.5	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		55.	54.	13.	0.	293.	17.	52.	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		02L 03L		03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	10571L RESIDUE FIXED TOTAL	
SUBM ID	MG/L	LAS MG/L	MPN NO/DL	MPN NO/DL	BACT.DENS NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	6(2)	1(0)					3(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L1.	2.6					272.	134.	<b>MINIMUM</b>
<b>HIGH</b>	159.	2.6					398.	220.	<b>MAXIMUM</b>
<b>AVERAGE</b>	28.*						349.	177.	<b>MOYENNE</b>
<b>STD.DEV.</b>	64.*						68.	61.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L1.								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	1.						378.	177.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	5.								<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DB0006 LAT. 57 D 10 M 0 S LONG. 111 D 45 M 21 S

UTM 12 454300 E 6336000 N  
JUL 31 1972 TO/A JUL 02 1975

## DOVER RIVER

	07107L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15419L PHOSPHORUS TOTAL PHOSPHATE	15406L PHOSPHORUS TOTAL PHOSPHATE	08101L OXYGEN DISSOLVED DO	09106L FLUORIDE DISSOLVED F	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	O2 MG/L	F MG/L	
SAMPLES(FLAGS)	7(5)	3(3)	6(2)	1(0)	4(0)	4(0)		5(2)	ECHANTILLONS(IND.)
LOW	L.1	L.1	L.2	1.760	.3	.3		L.05	MINIMUM
HIGH	.10	L.1	3.5	1.760	2.3	2.3		.19	MAXIMUM
AVERAGE	.100*		1.150*		1.100	1.100		.11*	MOYENNE
STD.DEV.	.000*		1.247*		.883	.883		.07*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.1		L.2		.450	.450		L.05	25 <sup>e</sup>
MEDIAN 50TH	L.1	L.1	.750		.900	.900		.07	50 <sup>e</sup> MEDIANE
75TH	.1		1.5		1.750	1.750		.18	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	06L			06L				CODE DE SECOURS

	24003L CHROMIUM TOTAL CR	25006L MANGANESE TOTAL MN	26002L IRON TOTAL FE	26302L IRON EXTRBL. FE	27004L COBALT TOTAL CO	28004L NICKEL TOTAL NI	29008L COPPER TOTAL CU	30006L ZINC TOTAL ZN	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	1(0)	4(0)	4(0)	2(0)	4(2)	4(0)	4(0)	4(2)	ECHANTILLONS(IND.)
LOW	.018	.000	.1	1.4	L.001	.003	.004	.008	MINIMUM
HIGH	.018	.104	5.7	1.7	.020	.016	.022	.01	MAXIMUM
AVERAGE		.039	1.900	1.550	.006*	.007	.010	.009*	MOYENNE
STD.DEV.		.045	2.608	.212	.009*	.006	.008	.001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.010	.200		L.001	.003	.005	.009*	25 <sup>e</sup>
MEDIAN 50TH		.025	.900	1.550	.002*	.005	.007	L.010	50 <sup>e</sup> MEDIANE
75TH		.067	3.600		.012	.011	.015	.010*	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

	33003L ARSENIC TOTAL AS	47003L SILVER TOTAL AG	48004L CADMIUM TOTAL CD	80002L MERCURY TOTAL HG	82005L LEAD TOTAL PB	08201L OXYGEN BIOCHEM. DEMAND-BOD O2	06531L PHENOLIC MATERIAL PHENOL MG/L	06551L TANNIN AND LIGNIN T&L MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	1(0)		4(3)	5(1)	4(1)		6(3)	6(0)	ECHANTILLONS(IND.)
LOW	.001		L.001	.0002	L.001		L.001	1.02	MINIMUM
HIGH	.001		.004	.0038	.016		.021	3.5	MAXIMUM
AVERAGE			.002*	.00112*	.006*		.008*	2.55	MOYENNE
STD.DEV.			.002*	.00153*	.007*		.008*	1.07	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.001	.0003	.001*		L.001	1.4	25 <sup>e</sup>
MEDIAN 50TH			L.001	.0003	.003		.007*	3.00	50 <sup>e</sup> MEDIANE
75TH			.002*	.0010	.011		.010	3.4	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L		32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DC0001 LAT. 57 D 38 M 30 S LONG. 111 D 10 M 30 S

UTM 12 489560E 6388610 N  
FEB 11, 1976 TO/A MAR 07, 1979

## FIREBAG RIVER WSC SITE AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	31(0)	31(1)	31(2)	22(1)	29(0)	12(0)	31(0)	3(0)	ECHANTILLONS(IND.)
LOW	105.	70.	63.9	15.	1.1	6.8	43.2	-.4	MINIMUM
HIGH	433.	237.	227.0	85.	46.5	8.4	219.	.1	MAXIMUM
AVERAGE	208.	117.*	113.2*	34.*	4.6		111.1		MOYENNE
STD.DEV.	55.	29.*	27.6*	21.*	8.2		27.8		ECART-TYPE
PERCNT:10TH	158.	91.	87.1	10.	1.3	7.2	86.2		10 <sup>e</sup> PERCNT
25TH	182.	98.	Q98.6	20.	2.2	7.5	94.2		25 <sup>e</sup>
MEDIAN 50TH	202.	120.	112.0	30.	3.2	8.0	112.4	.1	50 <sup>e</sup> MEDIANE
75TH	233.	131.	124.8	40.	4.0	8.2	125.0		75 <sup>e</sup>
90TH	240.	134.	131.4	70.	5.5	8.3	128.4		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
SAMPLES(FLAGS)	31(1)	31(0)	31(0)	31(0)	31(8)	31(8)	31(0)	31(0)	ECHANTILLONS(IND.)
LOW	L.0	1.1	17.0	5.2	0.	53.	1.2	.1	MINIMUM
HIGH	2.0	9.0	59.9	18.8	1.	267.	7.0	17.5	MAXIMUM
AVERAGE	.8*	3.7	29.81	9.4	0.*	135.*	2.1	4.7	MOYENNE
STD.DEV.	.4*	1.3	7.30	2.3	0.*	34.*	1.0	3.0	ECART-TYPE
PERCNT:10TH	.3	2.8	23.0	7.2	0.	105.	1.4	2.2	10 <sup>e</sup> PERCNT
25TH	.5	3.0	26.0	8.0	0.	112.	1.6	3.0	25 <sup>e</sup>
MEDIAN 50TH	.8	3.7	29.5	9.5	0.	137.	2.0	4.5	50 <sup>e</sup> MEDIANE
75TH	1.0	4.2	32.9	10.3	Q0.	152.	2.4	5.4	75 <sup>e</sup>
90TH	1.1	4.5	34.20	11.0	Q0.	157.	2.6	6.3	90 <sup>e</sup>
SECONDARY CODE	03L 02L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)	27(0)	28(6)	8(1)	26(2)	3(0)	28(0)	28(0)		ECHANTILLONS(IND.)
LOW	.20	L.003	L.003	L.002	.26	.005	.023		MINIMUM
HIGH	5.40	.400	.010	.18	.68	.060	.180		MAXIMUM
AVERAGE	.889	.079*	.006*	.057*	.41	.019	.051		MOYENNE
STD.DEV.	.969	.093*	.003*	.042*	.23	.011	.030		ECART-TYPE
PERCNT:10TH	.30	.005		.01		.007	.028		10 <sup>e</sup> PERCNT
25TH	.48	L.010	.003	.020		.011	.040		25 <sup>e</sup>
MEDIAN 50TH	.60	.053	.003	.050	.3	.018	.044		50 <sup>e</sup> MEDIANE
75TH	1.00	.109	.010	.080		.025	.051		75 <sup>e</sup>
90TH	1.36	.222		.12		.03	.062		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DC0001 LAT 57 D 38 M 30 S LONG 111 D 10 M 30 S

TM 12 489560 6388610  
FEB 11 1976 TO/A MAR 07 1979

## FIREBAG RIVER WSC SITE AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	31(0)	31(1)	31(0)	31(1)	11(0)	27(0)	31(2)	13(12)	ECHANTILLONS(IND.)
LOW	6.6	L0.	11.5	L0.	3.9	10.	L05	L0	MINIMUM
HIGH	29.6	24.5	53.	23.0	16.4	190.	.17	L0	MAXIMUM
AVERAGE	13.10	10.6*	23.0	9.2*	9.3	47.	.10*	.0*	MOYENNE
STD.DEV.	5.00	5.2*	7.9	4.7*	3.7	44.	.03*	.0*	ECART-TYPE
PERCNT:10TH	7.30	4.0	15.5	3.0	5.2	12.	.06	L0	10 <sup>e</sup> PERCNT
25TH	7.9	6.5	17.5	6.0	7.3	18.	.08	L0	25 <sup>e</sup>
MEDIAN 50TH	15.0	10.	22.0	9.	8.3	23.	.10	L0	50 <sup>e</sup> MEDIANE
75TH	16.4	14.5	26.5	13.	12.4	71.	.12	L0	75 <sup>e</sup>
90TH	17.00	17.	31.0	14.	14.0	106.	.15	L0	90 <sup>e</sup>
SECONDARY CODE	02L						07L 01L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	28(0)	29(24)	11(0)	4(4)	8(8)	25(19)	22(5)	28(9)	ECHANTILLONS(IND.)
LOW	.1	L1.0	2.	L.001	L.001	L.001	L.1	L.02	MINIMUM
HIGH	1.70	3.5	22.	L.001	L.01	.014	2.1	.24	MAXIMUM
AVERAGE	.73	1.2*	9.4			.002*	.6*	.08*	MOYENNE
STD.DEV.	.40	.5*	6.5			.003*	.5*	.06*	ECART-TYPE
PERCNT:10TH	.3	L1.0	2.			L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	.35	L0.	4.	L.0010	L.001	L.001	.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.70	L0.	9.0	L.0010	L.006	L.001	.5	.07	50 <sup>e</sup> MEDIANE
75TH	1.10	L1.0	13.	L.0010	L.010	.001	.7	.13	75 <sup>e</sup>
90TH	1.2	2.0	17.			.005	1.3	.16	90 <sup>e</sup>
SECONDARY CODE						35L 33L			CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXA VALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)	4(4)	25(1)	30(2)	7(7)	26(24)	4(2)	27(18)	3(3)	ECHANTILLONS(IND.)
LOW	L.001	L.01	.01	L.01	L.001	L.001	L.003	L.015	MINIMUM
HIGH	L.005	.18	.48	L.05	.003	.001	.006	L.015	MAXIMUM
AVERAGE		.06*	.07*		.001*	.0010*	.003*		MOYENNE
STD.DEV.		.04*	.10*		.000*	.0000*	.001*		ECART-TYPE
PERCNT:10TH		.03	.01*		L.001		L.003		10 <sup>e</sup> PERCNT
25TH	L.003	.03	.02	L.01	L.001	L.0010	L.003		25 <sup>e</sup>
MEDIAN 50TH	L.005	.06	.05	L.05	L.001	.0010*	L.003	L.015	50 <sup>e</sup> MEDIANE
75TH	L.005	.08	.07	L.05	L.001	.0010	.003		75 <sup>e</sup>
90TH		.10	.13		L.001		.004		90 <sup>e</sup>
SECONDARY CODE	02L	06L	02L		02L	02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DC0001** LAT. **57 D 38 M 30 S** LONG. **111 D 10 M 30 S**

UTM **12 489560E 6388610 N**  
FEB 11, 1976 TO/A MAR 07, 1979

FIREBAG RIVER WSC SITE AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	30(0)	30(0)	22(18)	30(24)	30(8)	30(5)	28(15)	28(26)	ECHANTILLONS(IND.)
LOW	.020	.07	L.001	L.001	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	.79	2.06	.03	.013	.026	.043	.003	L.0005	MAXIMUM
AVERAGE	.061	.64	.003*	.003*	.004*	.007*	.0006*	.0003*	MOYENNE
STD.DEV.	.138	.31	.006*	.003*	.005*	.010*	.0006*	.0001*	ECART-TYPE
PERCNT:10TH	.024	.40	.001	L.001	L.001	L.001	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.026	.57	L.002	L.001	L.001	.001	.0002*	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.035	.63	L.002	L.002	.002	.004	.0004	L.0002	50 <sup>e</sup> MEDIANE
75TH	.042	.67	L.002	L.002	.005	.008	.0007	L.0005	75 <sup>e</sup>
90TH	.056	.71	.002	.006	.008	.016	.0010	L.0005	90 <sup>e</sup>
SECONDARY CODE	01L	01L	01L	01L	05L 06L	04L 01L	01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)	3(0)	3(3)	10(10)	3(2)	21(17)	1(1)	3(1)	27(25)	ECHANTILLONS(IND.)
LOW	.07	L.10	L.00	L.001	L.001	L.0	L.1	L.0001	MINIMUM
HIGH	.18	L.10	L.01	L.002	.003	L.0	.1	.0013	MAXIMUM
AVERAGE	.11			.001*	.001*		.1*	.0002*	MOYENNE
STD.DEV.	.06			.001*	.000*		.0*	.0002*	ECART-TYPE
PERCNT:10TH			L.00		L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH	.07	L.10	L.00	.001	L.001		.1	L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH			L.00		.001			L.0001	90 <sup>e</sup>
SECONDARY CODE				02L	02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	30(22)	28(0)	13(2)	13(2)	15(1)	31(1)	30(0)	29(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	L.2.	230.	L.0.	69.	60.	MINIMUM
HIGH	.009	8.	G16.	49.	31000.	70.	166.	149.	MAXIMUM
AVERAGE	.003*	3.	5.*	11.*	5687.*	8.*	129.	105.	MOYENNE
STD.DEV.	.002*	2.	5.*	12.*	11032.*	12.*	24.	24.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	2.	240.	2.	100.	70.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	L.2.	4.	330.	3.	112.	89.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	2.	8.	650.	4.	133.	101.	50 <sup>e</sup> MEDIANE
75TH	.003	2.	8.	11.	970.	9.	149.	116.	75 <sup>e</sup>
90TH	.005	4.	13.	G16.	30000.	16.	155.	140.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DC0002 LAT. 57 D 17 M 20 S LONG. 110 D 27 M 50 S

UTM 12 532320E 6349460N  
OCT 08 1976 TO/A JAN 12 1978LOST CREEK - ONE HALF MILE ABOVE THE  
MOUTH - AT WSC GAUGE - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)
SUBM ID	USIE/CM	MG/L	CAC03 MG/L	REL. UNITS	JTU	PH UNITS	CAC03 MG/L	PH UNITS
SAMPLES(FLAGS)	9(0)	8(0)	9(0)	9(0)	8(0)		9(0)	ECHANTILLONS(IND.)
LOW	88.	50.	47.7	10.	.6		46.4	MINIMUM
HIGH	355.	191.	182.8	80.	3.1		200.0	MAXIMUM
AVERAGE	173.	100.	93.4	49.	1.6		96.1	MOYENNE
STD.DEV.	77.	41.	39.0	18.	.8		44.0	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	138.	83.	81.7	50.	1.0		81.0	25 <sup>e</sup>
MEDIAN 50TH	170.	92.	87.9	50.	1.6		86.4	50 <sup>e</sup> MEDIANE
75TH	188.	107.	101.6	55.	2.1		104.0	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE								CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L
SAMPLES(FLAGS)	8(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)
LOW	.0	1.4	13.0	3.7	0.	57.	.2	.1
HIGH	.7	4.5	47.5	15.6	0.	244.	1.2	4.9
AVERAGE	.2	2.2	25.33	7.3	0.	117.	.5	2.7
STD.DEV.	.2	.9	10.02	3.4	0.	54.	.3	1.8
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	.1	1.5	21.5	6.2	0.	99.	.2	1.6
MEDIAN 50TH	.2	2.2	24.5	6.8	0.	105.	.4	2.7
75TH	.3	2.3	28.0	7.7	0.	127.	.5	4.5
90TH								90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L	CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L
SAMPLES(FLAGS)	9(0)	9(3)	2(1)	9(1)		9(0)	9(0)	ECHANTILLONS(IND.)
LOW	.48	.003	.003	.01		.007	.03	MINIMUM
HIGH	5.98	.138	.003	.12		.03	.058	MAXIMUM
AVERAGE	1.553	.027*	.003*	.044*		.016	.045	MOYENNE
STD.DEV.	1.707	.044*	.000*	.037*		.007	.009	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	.67	.008		.02		.01	.037	25 <sup>e</sup>
MEDIAN 50TH	1.14	.01	.003*	.03		.014	.049	50 <sup>e</sup> MEDIANE
75TH	1.40	.012		.07		.022	.05	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE	15L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

ATHABASCA RIVER SUB-BASIN

STATION **00AT07DC0002** LAT. **57 D 17M 20 S** LONG. **110 D 27M 50 S**

UTM **12 532320E 6349460 N**  
OCT 08, 1976 TO/A JAN 12, 1978

LOST CREEK - ONE-HALF MILE ABOVE THE  
MOUTH - AT WSC GAUGE - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>9(0)</b>	<b>9(0)</b>	<b>9(0)</b>	<b>9(0)</b>		<b>9(0)</b>	<b>9(1)</b>	<b>1(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>2.7</b>	<b>6.</b>	<b>8.</b>	<b>6.</b>		<b>25.</b>	<b>L.05</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>12.8</b>	<b>15.5</b>	<b>27.0</b>	<b>15.0</b>		<b>85.</b>	<b>.13</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>6.72</b>	<b>10.9</b>	<b>17.8</b>	<b>10.6</b>		<b>42.</b>	<b>.08*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>2.73</b>	<b>3.6</b>	<b>6.0</b>	<b>3.4</b>		<b>19.</b>	<b>.03*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>6.0</b>	<b>7.5</b>	<b>15.0</b>	<b>7.0</b>		<b>30.</b>	<b>.05</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>6.5</b>	<b>11.0</b>	<b>18.0</b>	<b>10.5</b>		<b>37.</b>	<b>.06</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>7.3</b>	<b>14.0</b>	<b>20.5</b>	<b>13.5</b>		<b>47.</b>	<b>.09</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>9(0)</b>	<b>9(7)</b>		<b>1(1)</b>	<b>1(1)</b>	<b>5(1)</b>	<b>6(3)</b>	<b>9(3)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.1</b>	<b>L1.0</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.60</b>	<b>2.5</b>		<b>L.001</b>	<b>L.01</b>	<b>.011</b>	<b>.5</b>	<b>.11</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.85</b>	<b>1.2*</b>				<b>.004*</b>	<b>.2*</b>	<b>.05*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.41</b>	<b>.5*</b>				<b>.004*</b>	<b>.2*</b>	<b>.03*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.7</b>	<b>L1.0</b>				<b>.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.85</b>	<b>L1.0</b>				<b>.002</b>	<b>.1*</b>	<b>.04</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.0</b>	<b>L1.0</b>				<b>.003</b>	<b>.4</b>	<b>.09</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>		<b>9(1)</b>	<b>9(4)</b>	<b>5(5)</b>	<b>8(8)</b>	<b>1(1)</b>	<b>9(9)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.01</b>	<b>L.01</b>	<b>L.01</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.15</b>	<b>.10</b>	<b>L.05</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.09*</b>	<b>.03*</b>						<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.05*</b>	<b>.03*</b>						<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.07</b>	<b>L.01</b>	<b>L.05</b>	<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.08</b>	<b>.02</b>	<b>L.05</b>	<b>L.001</b>		<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.12</b>	<b>.04</b>	<b>L.05</b>	<b>L.001</b>		<b>L.003</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DC0002 LAT. 57 D 17 M 20 S LONG. 110 D 27 M 50 S

UTM 12 532320E 6349460 N  
OCT 08 1976 TO/A JAN 12 1978LOST CREEK ONE HALF MILE ABOVE THE  
MOUTH AT WSC GAUGE - AOSERP

	25304L MANGANESE EXTRBL. MN MG/L	26304L IRON EXTRBL. FE MG/L	27302L COBALT EXTRBL. CO MG/L	28302L NICKEL EXTRBL. NI MG/L	29301L COPPER EXTRBL. CU MG/L	30305L ZINC EXTRBL. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	9(0)	9(0)	9(9)	9(8)	9(1)	9(1)	8(7)	8(6)	ECHANTILLONS(IND.)
LOW	.013	.25	L.000	L.002	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	.22	.77	L.002	.005	.005	.023	L.0005	L.0005	MAXIMUM
AVERAGE	.047	.58		.002*	.002*	.008*	.0003*	.0003*	MOYENNE
STD.DEV.	.066	.16		.001*	.002*	.009*	.0001*	.0001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.017	.54	L.002	L.002	.001	.003	L.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.023	.59	L.002	L.002	.001	.005	.0002*	.0002*	50 <sup>e</sup> MEDIANE
75TH	.035	.70	L.002	L.002	.002	.005	L.0004	.0004*	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					05L 06L	04L			CODE DE SECOURS

	38301L STRONTIUM EXTRBL. SR MG/L	42301L MOLYBDENUM EXTRBL. MO MG/L	47301L SILVER EXTRBL. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBL. CD MG/L	51301L ANTIMONY EXTRBL. SB MG/L	56301L BARIUM EXTRBL. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			4(4)		9(9)			8(7)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		L.001			.0006	MAXIMUM
AVERAGE								.0002*	MOYENNE
STD.DEV.								.0002*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.00		L.001			L.0002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL. Pb MG/L	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTRABLE MG/L	10551L RESIDUE FIXED FILTRABLE MG/L	
SAMPLES(FLAGS)	9(8)	9(0)	1(0)	1(0)	1(0)	9(1)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	2.	11.	5300.	L0.	55.	46.	MINIMUM
HIGH	.007	4.	2.	11.	5300.	7.	238.	197.	MAXIMUM
AVERAGE	.003*	3.				3.*	110.	88.	MOYENNE
STD.DEV.	.002*	1.				2.*	52.	44.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.				1.	94.	68.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.				2.	98.	78.	50 <sup>e</sup> MEDIANE
75TH	L.002	4.				4.	113.	88.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DD0001** LAT. **58 D 12M 18 S** LONG. **111 D 23M 24 S**

UTM **12 477080E 6451390 N**  
JUN 07, 1977 TO/A OCT 23, 1979

ATHABASCA RIVER AT EMBARRAS AIRPORT -  
AT WSC GAUGE -AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL CACO3	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>5(0)</b>	<b>18(0)</b>		<b>18(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>165.</b>	<b>110.</b>	<b>89.6</b>	<b>15.</b>	<b>1.5</b>		<b>84.8</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>410.</b>	<b>233.</b>	<b>168.0</b>	<b>50.</b>	<b>290.</b>		<b>144.0</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>285.</b>	<b>164.</b>	<b>121.0</b>	<b>31.</b>	<b>50.0</b>		<b>111.2</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>81.</b>	<b>47.</b>	<b>26.9</b>	<b>14.</b>	<b>70.4</b>		<b>22.7</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>190.</b>	<b>110.</b>	<b>90.4</b>		<b>2.4</b>		<b>86.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>220.</b>	<b>120.</b>	<b>94.6</b>	<b>25.</b>	<b>5.0</b>		<b>87.8</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>252.</b>	<b>143.</b>	<b>114.9</b>	<b>25.</b>	<b>17.9</b>		<b>109.2</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>375.</b>	<b>219.</b>	<b>145.1</b>	<b>40.</b>	<b>68.0</b>		<b>133.1</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>390.</b>	<b>224.</b>	<b>160.5</b>		<b>120.0</b>		<b>143.8</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K	11101L SODIUM DISSOLVED NA	20101L CALCIUM DISSOLVED CA	12102L MAGNESIUM DISSOLVED MG	06301L CARBONATE (CALCD.) CO3	06201L BICARBONT. (CALCD.) HCO3	17201L CHLORIDE DISSOLVED CL	16306L SULPHATE DISSOLVED S04	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(13)</b>	<b>18(13)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.6</b>	<b>6.8</b>	<b>24.80</b>	<b>6.0</b>	<b>0.</b>	<b>Q103.</b>	<b>5.1</b>	<b>8.6</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.4</b>	<b>29.0</b>	<b>45.50</b>	<b>13.2</b>	<b>Q0.</b>	<b>176.</b>	<b>31.0</b>	<b>34.1</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.3</b>	<b>16.7</b>	<b>33.12</b>	<b>9.3</b>	<b>0.*</b>	<b>135.*</b>	<b>16.1</b>	<b>20.6</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.5</b>	<b>8.2</b>	<b>7.14</b>	<b>2.2</b>	<b>0.*</b>	<b>28.*</b>	<b>10.1</b>	<b>7.9</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.6</b>	<b>7.0</b>	<b>25.50</b>	<b>6.5</b>	<b>0.</b>	<b>Q105.</b>	<b>6.0</b>	<b>9.8</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.0</b>	<b>9.1</b>	<b>26.00</b>	<b>7.5</b>	<b>0.</b>	<b>Q107.</b>	<b>6.8</b>	<b>14.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.3</b>	<b>14.2</b>	<b>31.70</b>	<b>8.8</b>	<b>0.</b>	<b>133.</b>	<b>12.6</b>	<b>19.1</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.6</b>	<b>26.0</b>	<b>39.00</b>	<b>11.6</b>	<b>Q0.</b>	<b>Q162.</b>	<b>26.4</b>	<b>28.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>2.0</b>	<b>29.0</b>	<b>44.50</b>	<b>12.1</b>	<b>Q0.</b>	<b>Q175.</b>	<b>30.0</b>	<b>30.7</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N	07110L NITROGEN DISSOLVED NO3 & NO2 N	07206L NITROGEN DISSOLVED NITRITE N	07555L NITROGEN DISSOLVED AMMONIA N	07651L NITROGEN DISSOLVED N	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P	15406L PHOSPHORUS TOTAL P	15407L PHOSPHATE TOTAL P04	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>17(0)</b>	<b>10(2)</b>	<b>16(1)</b>		<b>17(0)</b>	<b>17(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.30</b>	<b>.005</b>	<b>L.003</b>	<b>.008</b>		<b>.004</b>	<b>.021</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>2.96</b>	<b>.300</b>	<b>.032</b>	<b>.091</b>		<b>.120</b>	<b>.410</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.138</b>	<b>.087</b>	<b>.010*</b>	<b>.042*</b>		<b>.021</b>	<b>.092</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.650</b>	<b>.082</b>	<b>.009*</b>	<b>.028*</b>		<b>.028</b>	<b>.114</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.54</b>	<b>.005</b>	<b>L.003</b>	<b>L.01</b>		<b>.005</b>	<b>.024</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.60</b>	<b>.010</b>	<b>.003</b>	<b>.020</b>		<b>.007</b>	<b>.032</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.060</b>	<b>.071</b>	<b>.009</b>	<b>.032</b>		<b>.013</b>	<b>.048</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.39</b>	<b>.134</b>	<b>.011</b>	<b>.065</b>		<b>.021</b>	<b>.090</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.94</b>	<b>.185</b>	<b>.023</b>	<b>.084</b>		<b>.053</b>	<b>.36</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DD0001 LAT. 58 D 12M 18 S LONG. 111 D 23M 24 S

UTM 12 477080E 6451390 N  
JUN 07 1977 TO A OCT 23 1979ATHABASCA RIVER AT EMBARRAS AIRPORT  
AT WSC GAUGE AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	18(0)	17(0)	13(0)	17(0)	2(0)	18(0)	14(1)	13(13)	ECHANTILLONS(IND.)
LOW	4.20	5.0	15.5	5.0	9.4	12.	L.05	L.0	MINIMUM
HIGH	9.50	25.	36.0	24.5	9.9	107.	.18	L.0	MAXIMUM
AVERAGE	6.54	12.1	25.8	11.1	9.7	43.	.09*		MOYENNE
STD.DEV.	1.40	5.0	7.2	4.6	.4	24.	.03*		ECART-TYPE
PERCNT:10TH	5.00	6.5	17.5	6.0		13.	.05	L.0	10 <sup>e</sup> PERCNT
25TH	5.50	9.0	18.0	8.0		23.	.07	L.0	25 <sup>e</sup>
MEDIAN 50TH	6.10	11.0	27.0	10.5	9.6	42.	.09	L.0	50 <sup>e</sup> MEDIANE
75TH	7.60	13.5	32.0	13.5		53.	.10	L.0	75 <sup>e</sup>
90TH	8.50	19.5	32.5	15.0		75.	.12	L.0	90 <sup>e</sup>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNITS. LAS. MG/L	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	18(0)	18(17)	13(1)	1(0)	1(1)	12(6)	14(0)	14(1)	ECHANTILLONS(IND.)
LOW	.1	L.0	L.0	.002	L.001	L.001	.1	L.02	MINIMUM
HIGH	1.8	1.0	21.	.002	L.001	.008	2.4	.30	MAXIMUM
AVERAGE	.66	1.0*	5.5*			.002*	.8	.13*	MOYENNE
STD.DEV.	.40	.0*	5.5*			.003*	.6	.08*	ECART-TYPE
PERCNT:10TH	.3	L.0	1.			L.001	.2	.05	10 <sup>e</sup> PERCNT
25TH	.4	L.0	2.			L.001	.4	.06	25 <sup>e</sup>
MEDIAN 50TH	.60	L1.0	4.			.001*	.6	.12	50 <sup>e</sup> MEDIANE
75TH	.8	L.0	6.			.004	.9	.15	75 <sup>e</sup>
90TH	1.1	L1.0	11.			.007	1.6	.22	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)	13(13)	17(1)	18(0)	12(12)	18(11)		18(10)		ECHANTILLONS(IND.)
LOW	L.001	L.01	.04	L.01	L.001		L.003		MINIMUM
HIGH	L.001	.08	23.7	L.05	.006		.036		MAXIMUM
AVERAGE		.05*	1.66		.002*		.007*		MOYENNE
STD.DEV.		.02*	5.51		.001*		.010*		ECART-TYPE
PERCNT:10TH	L.001	.03	.05	L.01	L.001		L.003		10 <sup>e</sup> PERCNT
25TH	L.001	.03	.08	L.010	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH	L.001	.05	.29	L.010	L.001		L.003		50 <sup>e</sup> MEDIANE
75TH	L.001	.06	.69	L.050	.002		.004		75 <sup>e</sup>
90TH	L.001	.07	1.29	L.05	.003		.032		90 <sup>e</sup>
SECONDARY CODE		.06L	.02L		.02L				CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DD0001** LAT. **58 D 12M 18 S** LONG. **111 D 23M 24 S**

UTM **12 477080E 6451390 N**  
JUN 07, 1977 TO/À OCT 23, 1979

ATHABASCA RIVER AT EMBARRAS AIRPORT -  
AT WSC GAUGE -AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	18(0)	18(0)	18(15)	18(7)	18(3)	18(1)	15(4)	14(11)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.019	.40	L.001	L.001	L.001	L.001	L.0002	L.0002	<b>MINIMUM</b>
<b>HIGH</b>	.290	15.5	.009	.008	.031	.074	.0050	.0005	<b>MAXIMUM</b>
<b>AVERAGE</b>	.072	2.18	.002*	.003*	.005*	.018*	.0010*	.0002*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.064	3.49	.002*	.002*	.007*	.017*	.0013*	.0001*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.022	.40	L.001	L.001	L.001	.004	L.0002	L.0002	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.033	.63	L.001	L.002	.001	.007	L.0002	L.0002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.053	.96	L.001	.002	.005	.013	.0005	L.0002	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.087	2.15	L.002	.004	.006	.021	.0016	L.0002	<b>75<sup>e</sup></b>
<b>90TH</b>	.130	3.80	.003	.007	.008	.042	.0023	.0003	<b>90<sup>e</sup></b>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			1(0)		18(15)			18(16)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			.00		L.001			L.0001	<b>MINIMUM</b>
<b>HIGH</b>			.00		.003			.0004	<b>MAXIMUM</b>
<b>AVERAGE</b>					.001*			.0001*	<b>MOYENNE</b>
<b>STD.DEV.</b>					.000*			.0001*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					L.001			L.0001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					L.001			L.0001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					L.001			L.0001	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					L.001			L.0001	<b>75<sup>e</sup></b>
<b>90TH</b>					.001			.0001	<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	BACT.DENS. NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	18(16)	14(0)	6(0)	6(0)	6(0)	18(0)	18(0)	18(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.002	1.	0.	5.	300.	3.	108.	70.	<b>MINIMUM</b>
<b>HIGH</b>	.005	4.	240.	350.	30000.	592.	290.	221.	<b>MAXIMUM</b>
<b>AVERAGE</b>	.002*	3.	90.	152.	7365.	83.	187.	136.	<b>MOYENNE</b>
<b>STD.DEV.</b>	.001*	1.	86.	126.	11290.	142.	53.	42.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.002	2.				3.	125.	91.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.002	2.	22.	49.	390.	4.	151.	100.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.002	2.	75.	135.	4200.	25.	164.	133.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.002	4.	130.	240.	5100.	86.	231.	153.	<b>75<sup>e</sup></b>
<b>90TH</b>	.002	4.				206.	252.	216.	<b>90<sup>e</sup></b>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07DD0002 LAT 58° 21' N 48° S LONG 111° 14' W

ITEM 12 4861301 6468970

JUN 07 1977 TO/A MAR 09 1979

RICHARDSON RIVER AT WSC GAUGE -  
AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	CAC03 MG/L	REL UNITS	JTU	PH UNITS	CAC03 MG/L	PH UNITS	
SAMPLES(FLAGS)	15(0)	14(0)	14(0)	8(1)	15(0)		15(0)		ECHANTILLONS(IND.)
LOW	63.	40.	36.1	15.	.5		33.6		MINIMUM
HIGH	100.	54.	47.3	35.	18.7		46.6		MAXIMUM
AVERAGE	85.	46.	40.6	21.*	4.3		40.0		MOYENNE
STD.DEV.	10.	4.	3.7	11.*	4.3		4.1		ECART-TYPE
PERCNT:10TH	74.	41.	36.8		1.5		34.2		10 <sup>e</sup> PERCNT
25TH	77.	42.	38.3	10.	1.9		36.5		25 <sup>e</sup>
MEDIAN 50TH	85.	45.	39.6	23.	3.3		40.0		50 <sup>e</sup> MEDIANE
75TH	95.	49.	41.9	30.	4.8		42.9		75 <sup>e</sup>
90TH	99.	51.	46.4		6.4		45.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
SAMPLES(FLAGS)	15(0)	15(0)	14(0)	15(0)	15(7)	15(7)	15(0)	15(0)	ECHANTILLONS(IND.)
LOW	.4	.6	8.9	3.3	0.	41.	.9	1.8	MINIMUM
HIGH	1.0	2.5	12.0	4.2	Q0.	Q57.	1.7	5.3	MAXIMUM
AVERAGE	.7	1.9	10.16	3.7	0.*	49.*	1.3	4.0	MOYENNE
STD.DEV.	.2	.5	1.10	.3	0.*	5.*	.3	.8	ECART-TYPE
PERCNT:10TH	.5	1.5	9.00	3.3	0.	Q41.	.9	3.4	10 <sup>e</sup> PERCNT
25TH	.5	1.6	9.3	3.5	0.	44.	1.1	3.4	25 <sup>e</sup>
MEDIAN 50TH	.8	1.9	9.90	3.7	0.	49.	1.2	4.0	50 <sup>e</sup> MEDIANE
75TH	.8	2.2	10.5	3.9	Q0.	Q52.	1.4	4.5	75 <sup>e</sup>
90TH	.9	2.3	12.00	4.0	Q0.	55.	1.6	5.0	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)	15(0)	14(1)	7(2)	13(2)		14(0)	14(0)		ECHANTILLONS(IND.)
LOW	.04	.005	L.003	L.01		.008	.030		MINIMUM
HIGH	1.58	.290	.012	.10		.042	.067		MAXIMUM
AVERAGE	.645	.078*	.006*	.037*		.019	.048		MOYENNE
STD.DEV.	.390	.078*	.004*	.027*		.009	.010		ECART-TYPE
PERCNT:10TH	.30	.006		L.01		.012	.038		10 <sup>e</sup> PERCNT
25TH	.35	.010	L.003	.01		.012	.040		25 <sup>e</sup>
MEDIAN 50TH	.55	.071	.003	.030		.018	.047		50 <sup>e</sup> MEDIANE
75TH	.91	.120	.010	.05		.021	.055		75 <sup>e</sup>
90TH	1.09	.137		.07		.031	.062		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DD0002** LAT. **58 D 21M 48 S** LONG. **111 D 14M 14 S**

UTM **12 486130 E 6468970 N**  
JUN 07, 1977 TO/A MAR 09, 1979

RICHARDSON RIVER AT WSC GAUGE -  
AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	15(0)	14(0)	14(0)	14(0)		15(0)	15(4)	7(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>9.10</b>	<b>2.0</b>	<b>6.0</b>	<b>1.5</b>		<b>7.</b>	<b>L.05</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>18.00</b>	<b>12.0</b>	<b>12.5</b>	<b>12.0</b>		<b>107.</b>	<b>.09</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>14.59</b>	<b>5.0</b>	<b>9.9</b>	<b>4.4</b>		<b>25.</b>	<b>.07*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>2.81</b>	<b>3.3</b>	<b>1.9</b>	<b>3.2</b>		<b>25.</b>	<b>.02*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>10.9</b>	<b>2.5</b>	<b>7.5</b>	<b>1.5</b>		<b>9.</b>	<b>L.05</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>12.3</b>	<b>2.5</b>	<b>8.5</b>	<b>2.0</b>		<b>10.</b>	<b>L.05</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>14.7</b>	<b>3.3</b>	<b>10.0</b>	<b>2.8</b>		<b>15.</b>	<b>.07</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>17.50</b>	<b>6.5</b>	<b>11.0</b>	<b>6.5</b>		<b>33.</b>	<b>.08</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>17.9</b>	<b>10.5</b>	<b>12.5</b>	<b>9.0</b>		<b>40.</b>	<b>.09</b>		<b>90<sup>e</sup></b>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
<b>SAMPLES(FLAGS)</b>	15(0)	15(15)	7(2)		1(0)	1(1)	2(1)	15(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.2</b>	<b>L.0</b>	<b>L.0</b>		<b>.003</b>	<b>L.001</b>	<b>L.1</b>	<b>.03</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.4</b>	<b>L.1.0</b>	<b>12.</b>		<b>.003</b>	<b>L.001</b>	<b>.7</b>	<b>.21</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.55</b>		<b>4.0*</b>				<b>.4*</b>	<b>.09</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.33</b>		<b>3.9*</b>				<b>.4*</b>	<b>.06</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.2</b>	<b>L.0</b>						<b>.03</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.3</b>	<b>L.0</b>	<b>L.0</b>					<b>.04</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.5</b>	<b>L.1.0</b>	<b>3.</b>				<b>.4*</b>	<b>.08</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.6</b>	<b>L.1.0</b>	<b>6.</b>					<b>.14</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.05</b>	<b>L.1.0</b>						<b>.15</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>	2(2)	9(2)	14(1)	5(5)	14(14)		13(10)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>	<b>L.01</b>	<b>L.01</b>	<b>L.01</b>	<b>L.001</b>		<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>L.001</b>	<b>.08</b>	<b>.39</b>	<b>L.05</b>	<b>L.001</b>		<b>.004</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.03*</b>	<b>.08*</b>				<b>.003*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.02*</b>	<b>.09*</b>				<b>.000*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			<b>.03</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.02</b>	<b>.04</b>	<b>L.05</b>	<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.001</b>	<b>.03</b>	<b>.06</b>	<b>L.05</b>	<b>L.001</b>		<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.04</b>	<b>.08</b>	<b>L.05</b>	<b>L.001</b>		<b>L.003</b>		<b>75<sup>e</sup></b>
<b>90TH</b>			<b>.11</b>		<b>L.001</b>		<b>.004</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	02L	06L	02L		02L				CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00AT07DD0002 LAT. 58 D 21M 48 S LONG. 111 D 14M 14 S

UTM 12 486130E 6468970 N  
JUN 07 1977 TO/A MAR 09 1979

RICHARDSON RIVER AT WSC GAUGE -  
AOSERP

	25304L MANGANESE EXTRBL. MN MG/L	26304L IRON EXTRBL. FE MG/L	27302L COBALT EXTRBL. CO MG/L	28302L NICKEL EXTRBL. NI MG/L	29301L COPPER EXTRBL. CU MG/L	30305L ZINC EXTRBL. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	14(0)	14(0)	8(8)	14(14)	14(6)	14(3)	15(6)	15(14)	ECHANTILLONS(IND.)
LOW	.012	.36	L.001	L.001	L.001	L.001	L.0002	.0001	MINIMUM
HIGH	.054	.82	L.002	L.002	.017	.034	.0010	L.0005	MAXIMUM
AVERAGE	.033	.59			.003*	.007*	.0004*	.0002*	MOYENNE
STD.DEV.	.011	.11			.004*	.009*	.0002*	.0001*	ECART-TYPE
PERCNT:10TH	.021	.46		L.001	L.001	L.001	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.028	.50	L.001	L.001	L.001	.002	L.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.032	.60	L.002	L.001	.001	.005	.0004	L.0002	50 <sup>e</sup> MEDIANE
75TH	.041	.65	L.002	L.002	.003	.010	.0006	L.0002	75 <sup>e</sup>
90TH	.046	.69		L.002	.007	.012	.0007	L.0002	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBL. SR MG/L	42301L MOLYBDENUM EXTRBL. MO MG/L	47301L SILVER EXTRBL. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBL. CD MG/L	51301L ANTIMONY EXTRBL. SB MG/L	56301L BARIUM EXTRBL. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			1(1)		8(6)			15(14)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.00		.001			.0002	MAXIMUM
AVERAGE					.001*			.0001*	MOYENNE
STD.DEV.					.000*			.0000*	ECART-TYPE
PERCNT:10TH								L.0001	10 <sup>e</sup> PERCNT
25TH					L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH					L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH					.001*			L.0001	75 <sup>e</sup>
90TH								L.0001	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO 100ML	36001L COLIFORMS TOTAL MPN NO 100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO./ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	14(10)	15(0)	3(0)	3(0)	4(0)	15(1)	15(0)	15(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	5.	5.	260.	L0.	53.	35.	MINIMUM
HIGH	.005	4.	21.	21.	360.	38.	67.	58.	MAXIMUM
AVERAGE	.002*	2.	12.	14.	313.	11.*	58.	44.	MOYENNE
STD.DEV.	.001*	1.	8.	9.	46.	8.*	4.	6.	ECART-TYPE
PERCNT:10TH	L.002	2.				2.	54.	37.	10 <sup>e</sup> PERCNT
25TH	L.002	2.			275.	6.	55.	39.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	11.	17.	315.	10.	57.	44.	50 <sup>e</sup> MEDIANE
75TH	.002	2.			350.	10.	62.	46.	75 <sup>e</sup>
90TH	.004	4.				15.	66.	52.	90 <sup>e</sup>
SECONDARY CODE	32L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DD0003** LAT. **58 D 24 M 47 S** LONG. **110 D 55 M 12 S**

UTM **12 504680 E 6474490 N**  
MAY 31, 1977 TO/A MAR 06, 1979

JACKFISH CREEK APPROXIMATELY 500  
METERS UP FROM CONFLUENCE WITH THE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CaCO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CaCO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	12(0)	12(0)	12(0)	6(2)	12(0)	3(0)	12(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>80.</b>	<b>47.</b>	<b>39.8</b>	<b>L5.</b>	<b>2.1</b>	<b>7.3</b>	<b>40.6</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>238.</b>	<b>123.</b>	<b>100.4</b>	<b>25.</b>	<b>86.</b>	<b>8.3</b>	<b>105.7</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>150.</b>	<b>84.</b>	<b>69.6</b>	<b>15.*</b>	<b>21.4</b>		<b>68.7</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>55.</b>	<b>28.</b>	<b>23.7</b>	<b>8.*</b>	<b>26.3</b>		<b>23.0</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>88.</b>	<b>48.</b>	<b>42.7</b>		<b>2.7</b>		<b>41.4</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>95.</b>	<b>57.</b>	<b>43.9</b>	<b>L5.</b>	<b>4.0</b>		<b>43.3</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>150.</b>	<b>84.</b>	<b>69.2</b>	<b>18.</b>	<b>8.9</b>	<b>8.1</b>	<b>71.1</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>198.</b>	<b>108.</b>	<b>91.3</b>	<b>20.</b>	<b>29.4</b>		<b>86.0</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>209.</b>	<b>119.</b>	<b>100.0</b>		<b>57.0</b>		<b>93.0</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.) CO3	06201L BICARBONAT. (CALCD.) HCO3	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	MG/L	MG/L	CL MG/L	S04 MG/L	
<b>SAMPLES(FLAGS)</b>	12(0)	12(0)	12(0)	12(0)	12(6)	12(6)	12(0)	12(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.6</b>	<b>1.9</b>	<b>10.00</b>	<b>3.6</b>	<b>0.</b>	<b>49.</b>	<b>2.0</b>	<b>1.5</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.7</b>	<b>8.0</b>	<b>28.00</b>	<b>7.7</b>	<b>Q0.</b>	<b>Q129.</b>	<b>5.6</b>	<b>14.4</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.9</b>	<b>4.7</b>	<b>18.83</b>	<b>5.5</b>	<b>0.*</b>	<b>84.*</b>	<b>3.6</b>	<b>6.9</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.4</b>	<b>2.2</b>	<b>7.08</b>	<b>1.5</b>	<b>0.*</b>	<b>28.*</b>	<b>1.3</b>	<b>4.7</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.6</b>	<b>2.0</b>	<b>10.5</b>	<b>3.7</b>	<b>0.</b>	<b>Q50.</b>	<b>2.0</b>	<b>1.6</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.7</b>	<b>2.0</b>	<b>11.25</b>	<b>4.0</b>	<b>0.</b>	<b>53.</b>	<b>2.3</b>	<b>2.5</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.8</b>	<b>5.4</b>	<b>18.50</b>	<b>5.6</b>	<b>0.</b>	<b>87.</b>	<b>3.7</b>	<b>6.4</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.0</b>	<b>6.5</b>	<b>25.50</b>	<b>6.7</b>	<b>0.</b>	<b>105.</b>	<b>4.5</b>	<b>11.6</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.6</b>	<b>7.0</b>	<b>27.5</b>	<b>7.3</b>	<b>Q0.</b>	<b>113.</b>	<b>5.6</b>	<b>12.5</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
<b>SAMPLES(FLAGS)</b>	12(0)	12(1)	6(2)	11(1)		12(1)	12(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.11</b>	<b>.004</b>	<b>L.003</b>	<b>L.01</b>		<b>.003</b>	<b>.011</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>1.90</b>	<b>.267</b>	<b>.010</b>	<b>.17</b>		<b>.018</b>	<b>.093</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.793</b>	<b>.075*</b>	<b>.005*</b>	<b>.048*</b>		<b>.009*</b>	<b>.043</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.470</b>	<b>.094*</b>	<b>.003*</b>	<b>.048*</b>		<b>.004*</b>	<b>.022</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.34</b>	<b>.007</b>		<b>.01</b>		<b>.004</b>	<b>.020</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.460</b>	<b>.008*</b>	<b>L.003</b>	<b>.010</b>		<b>.007</b>	<b>.030</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.860</b>	<b>.034</b>	<b>.004</b>	<b>.03</b>		<b>.009</b>	<b>.040</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.020</b>	<b>.096</b>	<b>.007</b>	<b>.075</b>		<b>.011*</b>	<b>.052</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.06</b>	<b>.260</b>		<b>.08</b>		<b>.013</b>	<b>.064</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DD0003 LAT 58° 24' 47" S LONG 110° 55' 12" W

ITEM 12 5046803 6474490  
MAY 31 1977 TO/A MAR 06 1979JACKFISH CREEK APPROXIMATELY 500  
METERS UP FROM CONFLUENCE WITH THE

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	12(0)	12(1)	12(0)	12(1)	10(0)	12(0)	10(5)	6(6)	ECHANTILLONS(IND.)
LOW	.02	L.5	8.5	L.5	1.0	3.	L.05	L.0	MINIMUM
HIGH	14.80	11.0	22.0	10.	10.5	259.	.11	L.0	MAXIMUM
AVERAGE	8.28	6.5*	14.6	5.6*	6.5	48.	.06*		MOYENNE
STD.DEV.	4.52	3.0*	4.2	2.6*	3.0	70.	.02*		ECART-TYPE
PERCNT:10TH	5.1	3.5	10.0	3.0	2.7	10.	L.05		10 <sup>e</sup> PERCNT
25TH	5.70	5.0	10.8	4.5	4.4	13.	L.05	L.0	25 <sup>e</sup>
MEDIAN 50TH	6.90	6.0	14.3	5.3	6.3	25.	.05*	L.0	50 <sup>e</sup> MEDIANE
75TH	13.15	8.8	17.8	7.0	8.7	51.	.08	L.0	75 <sup>e</sup>
90TH	14.00	11.	19.0	9.0	10.3	75.	.10		90 <sup>e</sup>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	12(0)	10(10)	6(2)					10(2)	ECHANTILLONS(IND.)
LOW	.2	L.0.	L.0.					L.02	MINIMUM
HIGH	1.1	L1.0	17.					.18	MAXIMUM
AVERAGE	.44		5.2*					.09*	MOYENNE
STD.DEV.	.29		6.2*					.05*	ECART-TYPE
PERCNT:10TH	.2	L1.0						L.02	10 <sup>e</sup> PERCNT
25TH	.20	L.0.	L.0.					.03	25 <sup>e</sup>
MEDIAN 50TH	.40	L1.0	2.5					.09	50 <sup>e</sup> MEDIANE
75TH	.48	L1.0	7.					.13	75 <sup>e</sup>
90TH	.95	L1.0						.16	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	MG/L	CR MG/L	
SAMPLES(FLAGS)		6(1)	10(0)	1(1)	12(11)		10(6)		ECHANTILLONS(IND.)
LOW		L.01	.07	L.05	L.001		L.003		MINIMUM
HIGH		.05	1.40	L.05	.001		.008		MAXIMUM
AVERAGE		.04*	.45		.001*		.004*		MOYENNE
STD.DEV.		.02*	.46		.000*		.002*		ECART-TYPE
PERCNT:10TH			.07		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.02	.07		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.05	.27		L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.05	.79		L.001		.004		75 <sup>e</sup>
90TH			1.11		L.001		.007		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DD0003** LAT. **58 D 24 M 47 S** LONG. **110 D 55 M 12 S**

UTM **12 504680E 6474490 N**  
MAY 31, 1977 TO/A MAR 06, 1979

JACKFISH CREEK APPROXIMATELY 500  
METERS UP FROM CONFLUENCE WITH THE

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>4(4)</b>	<b>10(7)</b>	<b>12(3)</b>	<b>10(0)</b>	<b>11(3)</b>	<b>11(8)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	.017	.41	L.002	L.001	L.001	.001	L.0002	L.0002	MINIMUM
HIGH	.097	4.50	L.002	.009	.007	.310	.0021	L.0005	MAXIMUM
AVERAGE	.044	1.28		.002*	.003*	.042	.0008*	.0002*	MOYENNE
STD.DEV.	.023	1.08		.002*	.002*	.095	.0006*	.0001*	ECART-TYPE
PERCNT:10TH	.025	.46		L.001	L.001	.002	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.029	.73	L.002	L.001	.001*	.005	.0003	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.035	1.03	L.002	L.002	.003	.009	.0008	L.0002	50 <sup>e</sup> MEDIANE
75TH	.050	1.30	L.002	.002	.003	.029	.0010	.0002	75 <sup>e</sup>
90TH	.080	1.73		.006	.006	.177	.0014	.0003	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			<b>2(2)</b>		<b>6(6)</b>			<b>12(9)</b>	<b>ECHANTILLONS(IND.)</b>
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.00		L.001			.0003	MAXIMUM
AVERAGE								.0001*	MOYENNE
STD.DEV.								.0001*	ECART-TYPE
PERCNT:10TH								L.0001	10 <sup>e</sup> PERCNT
25TH					L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH					L.001			.0001*	75 <sup>e</sup>
90TH								.0003	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT. DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>12(7)</b>	<b>12(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	L.002	2.	0.	2.	60.	2.	54.	41.	MINIMUM
HIGH	.006	16.	8.	17.	1100.	69.	156.	117.	MAXIMUM
AVERAGE	.003*	4.	2.	7.	383.	21.	98.	79.	MOYENNE
STD.DEV.	.001*	4.	3.	7.	352.	22.	35.	28.	ECART-TYPE
PERCNT:10TH	L.002	2.				5.	57.	44.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	2.	120.	6.	63.	50.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	2.	2.	300.	12.	99.	85.	50 <sup>e</sup> MEDIANE
75TH	.004	3.	2.	16.	530.	32.	127.	104.	75 <sup>e</sup>
90TH	.004	8.				55.	137.	114.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

00AT07DD0004 58 38M 25 110 46M 26

12 513140 6499810  
SEP 08 1976 TO/A OCT 23 1979

ATHABASCA RIVER - BIG POINT CHANNEL  
OUTLET - DELTA SITE - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	18(0)	18(0)	18(0)	6(0)	16(0)	3(0)	18(0)		ECHANTILLONS(IND.)
LOW	180.	105.	87.4	15.	2.0	7.3	78.2		MINIMUM
HIGH	375.	223.	145.2	50.	130.0	8.6	123.2		MAXIMUM
AVERAGE	243.	135.	104.4	28.	48.0		96.2		MOYENNE
STD.DEV.	62.	36.	19.3	12.	41.2		14.9		ECART-TYPE
PERCNT:10TH	187.	107.	87.5		3.6		80.6		10 <sup>e</sup> PERCNT
25TH	196.	111.	91.3	20.	17.1		86.9		25 <sup>e</sup>
MEDIAN 50TH	226.	120.	98.4	28.	36.5	8.2	91.3		50 <sup>e</sup> MEDIANE
75TH	254.	141.	106.6	30.	88.0		107.0		75 <sup>e</sup>
90TH	370.	202.	144.4		108.0		123.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.) CO3	06201L BICARBONATE (CALCD.) HCO3	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	18(0)	18(0)	18(0)	18(0)	18(10)	18(10)	18(0)	18(0)	ECHANTILLONS(IND.)
LOW	.7	7.0	24.2	6.3	0.	95.	4.9	3.4	MINIMUM
HIGH	1.6	28.0	39.70	11.2	Q0.	Q150.	28.0	41.0	MAXIMUM
AVERAGE	1.1	12.0	28.91	7.8	0.*	117.*	10.4	16.7	MOYENNE
STD.DEV.	.2	6.6	5.15	1.6	0.*	18.*	7.7	8.4	ECART-TYPE
PERCNT:10TH	.8	7.1	24.50	6.4	0.	Q98.	4.9	10.0	10 <sup>e</sup> PERCNT
25TH	.9	8.0	25.50	6.7	0.	Q106.	5.9	12.0	25 <sup>e</sup>
MEDIAN 50TH	1.2	9.1	27.20	7.4	0.	111.	7.0	14.5	50 <sup>e</sup> MEDIANE
75TH	1.3	13.0	29.00	8.6	Q0.	130.	11.0	18.0	75 <sup>e</sup>
90TH	1.5	25.1	39.70	11.0	Q0.	Q150.	28.0	30.0	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)	17(0)	17(0)	12(2)	17(1)	2(0)	17(0)	17(0)		ECHANTILLONS(IND.)
LOW	.30	.003	L.003	.004	.25	.003	.024		MINIMUM
HIGH	1.22	.280	.026	.22	.36	.061	.220		MAXIMUM
AVERAGE	.666	.076	.007*	.053*	.31	.017	.080		MOYENNE
STD.DEV.	.262	.094	.007*	.048*	.08	.015	.055		ECART-TYPE
PERCNT:10TH	.30	.005	L.003	L.01		.005	.027		10 <sup>e</sup> PERCNT
25TH	.46	.008	.003	.030		.006	.047		25 <sup>e</sup>
MEDIAN 50TH	.60	.027	.006	.044	.31	.011	.057		50 <sup>e</sup> MEDIANE
75TH	.84	.100	.008	.06		.020	.097		75 <sup>e</sup>
90TH	1.04	.267	.013	.085		.045	.17		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07DD0004** LAT. **58 D 38 M 25 S** LONG. **110 D 46 M 26 S**

UTM **12 513140 E 6499810 N**  
SEP 08, 1976 TO/A OCT 23, 1979

ATHABASCA RIVER - BIG POINT CHANNEL  
OUTLET - DELTA SITE - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>18(0)</b>	<b>19(0)</b>	<b>18(0)</b>	<b>17(0)</b>	<b>15(0)</b>	<b>17(0)</b>	<b>11(0)</b>	<b>11(10)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>3.50</b>	<b>2.0</b>	<b>15.5</b>	<b>2.0</b>	<b>3.8</b>	<b>10.</b>	<b>.05</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>9.60</b>	<b>35.5</b>	<b>31.0</b>	<b>32.0</b>	<b>14.0</b>	<b>156.</b>	<b>6.0</b>	<b>.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>5.93</b>	<b>11.9</b>	<b>22.2</b>	<b>10.3</b>	<b>7.9</b>	<b>45.</b>	<b>.62</b>	<b>.0*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.57</b>	<b>7.1</b>	<b>5.0</b>	<b>6.8</b>	<b>2.6</b>	<b>39.</b>	<b>1.78</b>	<b>.0*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>4.0</b>	<b>6.0</b>	<b>17.0</b>	<b>5.</b>	<b>4.7</b>	<b>11.</b>	<b>.07</b>	<b>L.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>4.90</b>	<b>8.5</b>	<b>18.</b>	<b>6.5</b>	<b>5.3</b>	<b>16.</b>	<b>.08</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>5.55</b>	<b>11.0</b>	<b>21.0</b>	<b>9.0</b>	<b>8.5</b>	<b>29.</b>	<b>.09</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>6.3</b>	<b>12.5</b>	<b>26.0</b>	<b>11.0</b>	<b>9.3</b>	<b>70.</b>	<b>.10</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>8.5</b>	<b>21.0</b>	<b>31.0</b>	<b>19.5</b>	<b>10.4</b>	<b>95.</b>	<b>.10</b>	<b>L.0</b>	<b>90<sup>e</sup></b>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>12(0)</b>	<b>14(13)</b>	<b>10(2)</b>	<b>7(6)</b>		<b>11(7)</b>	<b>11(0)</b>	<b>10(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.2</b>	<b>L.0</b>	<b>L.0</b>	<b>L.001</b>		<b>L.001</b>	<b>.3</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.30</b>	<b>1.</b>	<b>12.</b>	<b>.006</b>		<b>.024</b>	<b>1.4</b>	<b>.26</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.62</b>	<b>1.0*</b>	<b>5.8*</b>	<b>.0017*</b>		<b>.004*</b>	<b>.8</b>	<b>.11*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.38</b>	<b>.0*</b>	<b>3.9*</b>	<b>.0019*</b>		<b>.007*</b>	<b>.3</b>	<b>.08*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.3</b>	<b>L.0</b>	<b>L.1.0</b>			<b>L.001</b>	<b>.4</b>	<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.30</b>	<b>L.0</b>	<b>2.</b>	<b>L.001</b>		<b>L.001</b>	<b>.5</b>	<b>.05</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.48</b>	<b>L.1.0</b>	<b>6.0</b>	<b>L.001</b>		<b>L.001</b>	<b>.8</b>	<b>.07</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.00</b>	<b>L.0</b>	<b>9.</b>	<b>L.001</b>		<b>.004</b>	<b>1.1</b>	<b>.18</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.1</b>	<b>L.1.0</b>	<b>10.5</b>			<b>.005</b>	<b>1.2</b>	<b>.23</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>	<b>2(2)</b>	<b>11(1)</b>	<b>15(0)</b>		<b>17(12)</b>	<b>2(0)</b>	<b>14(9)</b>	<b>2(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>	<b>.01</b>	<b>.04</b>		<b>L.001</b>	<b>.002</b>	<b>L.003</b>	<b>L.015</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.001</b>	<b>.14</b>	<b>3.40</b>		<b>.005</b>	<b>.002</b>	<b>.013</b>	<b>L.015</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.05*</b>	<b>.56</b>		<b>.001*</b>	<b>.0020</b>	<b>.004*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.04*</b>	<b>.81</b>		<b>.001*</b>	<b>.0000</b>	<b>.003*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.02</b>	<b>.05</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.02</b>	<b>.14</b>		<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.001</b>	<b>.04</b>	<b>.46</b>		<b>L.001</b>	<b>.0020</b>	<b>L.003</b>	<b>L.015</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.06</b>	<b>.54</b>		<b>.001</b>		<b>.003</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.06</b>	<b>.61</b>		<b>.002</b>		<b>.010</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	02L	06L	02L	02L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07DD0004 LAT 58° 38' 25" S LONG 110° 46' 26" W

ITEM 12 513140: 6499810

SEP 08 1976 TO/A OCT 23 1979

ATHABASCA RIVER - BIG POINT CHANNEL  
OUTLET - DELTA SITE - AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	19(0)	19(0)	9(5)	17(6)	19(0)	17(1)	19(3)	18(12)	ECHANTILLONS(IND.)
LOW	.004	.01	L.001	L.001	.001	L.001	.0003	L.0002	MINIMUM
HIGH	.146	6.80	.004	.007	.021	.215	.0061	.0008	MAXIMUM
AVERAGE	.060	1.88	.002*	.003*	.005	.031*	.0011*	.0003*	MOYENNE
STD.DEV.	.039	1.70	.001*	.002*	.004	.051*	.0014*	.0002*	ECART-TYPE
PERCNT:10TH	.021	.40		L.001	.002	.002	.0003	L.0002	10 <sup>e</sup> PERCNT
25TH	.028	.50	L.002	L.002	.002	.008	L.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.053	1.54	L.002	.003	.003	.011	.0006	.0002*	50 <sup>e</sup> MEDIANE
75TH	.077	2.8	.003	.004	.005	.035	.0013	L.0005	75 <sup>e</sup>
90TH	.13	4.70		.006	.008	.068	.0026	.0005	90 <sup>e</sup>
SECONDARY CODE	01L	01L	01L	01L	05L	01L	01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			2(2)		13(11)			17(13)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.00		.006			.0009	MAXIMUM
AVERAGE					.001*			.0002*	MOYENNE
STD.DEV.					.001*			.0002*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH					L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH					L.001			L.0001	75 <sup>e</sup>
90TH					.001			.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTRABLE	10551L RESIDUE FIXED FILTRABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	19(10)	13(0)	9(0)	9(1)	7(0)	16(0)	16(0)	16(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	5.	50.	3.	118.	75.	MINIMUM
HIGH	.015	4.	33.	350.	16000.	214.	247.	181.	MAXIMUM
AVERAGE	.005*	3.	10.	84.*	2820.	75.	157.	121.	MOYENNE
STD.DEV.	.004*	1.	11.	111.*	5830.	75.	40.	27.	ECART-TYPE
PERCNT:10TH	L.002	2.				4.	120.	89.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	2.	17.	180.	23.	126.	102.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	8.	33.	700.	44.	143.	123.	50 <sup>e</sup> MEDIANE
75TH	.007	4.	11.	130.	1200.	137.	169.	131.	75 <sup>e</sup>
90TH	.014	4.				194.	224.	160.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07KF0001** LAT. **58 D 39M 0 S** LONG. **111 D 18M 24 S**

UTM **12 482203E 6500907 N**  
JUN 01, 1977 TO/À MAR 27, 1979

MAMAWI LAKE CHANNEL - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>7(0)</b>	<b>13(0)</b>	<b>5(0)</b>	<b>13(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	210.	111.	92.5	15.	1.5	7.0	88.4		MINIMUM
HIGH	575.	324.	188.7	60.	350.	10.0	152.6		MAXIMUM
AVERAGE	386.	222.	142.0	28.	55.6		119.4		MOYENNE
STD.DEV.	127.	77.	28.6	15.	93.1		23.0		ECART-TYPE
PERCNT:10TH	213.	120.	102.9		1.8		89.8		10 <sup>e</sup> PERCNT
25TH	261.	150.	126.5	20.	4.9	8.0	94.9		25 <sup>e</sup>
MEDIAN 50TH	400.	227.	146.8	25.	34.0	8.2	118.4		50 <sup>e</sup> MEDIANE
75TH	450.	284.	163.1	30.	60.5	8.4	135.4		75 <sup>e</sup>
90TH	558.	317.	169.7		82.5		151.3		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(6)</b>	<b>13(6)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	1.1	7.5	26.0	6.7	0.	108.	5.3	9.9	MINIMUM
HIGH	3.2	52.5	50.00	15.5	Q0.	Q186.	80.0	76.0	MAXIMUM
AVERAGE	1.9	28.0	38.80	11.0	0.*	145.*	34.1	37.1	MOYENNE
STD.DEV.	.6	15.4	7.30	2.6	0.*	28.*	25.7	23.4	ECART-TYPE
PERCNT:10TH	1.3	8.0	28.5	7.2	0.	Q109.	5.9	11.5	10 <sup>e</sup> PERCNT
25TH	1.6	12.5	35.0	9.5	0.	116.	8.7	13.2	25 <sup>e</sup>
MEDIAN 50TH	1.8	28.5	40.0	11.4	0.	144.	28.2	36.0	50 <sup>e</sup> MEDIANE
75TH	2.0	42.0	43.40	12.4	Q0.	165.	54.0	55.5	75 <sup>e</sup>
90TH	2.6	43.5	47.50	13.3	Q0.	Q184.	69.5	70.0	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>12(1)</b>	<b>7(2)</b>	<b>12(0)</b>		<b>12(4)</b>	<b>13(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	.24	L.003	L.003	.006		L.003	.018		MINIMUM
HIGH	3.26	.340	.010	.10		.280	.390		MAXIMUM
AVERAGE	1.087	.092*	.005*	.037		.029*	.089		MOYENNE
STD.DEV.	.812	.117*	.003*	.027		.079*	.107		ECART-TYPE
PERCNT:10TH	.45	.003		.01		L.003	.024		10 <sup>e</sup> PERCNT
25TH	.48	.006	L.003	.017		.004*	.030		25 <sup>e</sup>
MEDIAN 50TH	1.06	.022	.003	.033		.006	.051		50 <sup>e</sup> MEDIANE
75TH	1.45	.197	.010	.045		.009*	.077		75 <sup>e</sup>
90TH	1.62	.230		.07		.010	.236		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07KF0001 LAT. 58 D 39M 0 S LONG. 111 D 18M 24 S

UTM 12 482203E 6500907 N  
JUN 01 1977 TO/A MAR 27 1979

MAMAWI LAKE CHANNEL - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	06101L CARBON DISSOLVED ORGANIC C	08102F OXYGEN DISSOLVED O2	08301L OXYGEN TOTAL COD O2	09105L FLUORIDE DISSOLVED F	16101L SULPHIDE DISSOLVED S	
SUBM ID	SI02 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	13(0)	12(1)	12(0)	12(1)	10(0)	13(0)	10(0)	6(6)	ECHANTILLONS(IND.)
LOW	1.30	L1.0	17.	L1.0	3.8	14.	.01	L.0	MINIMUM
HIGH	17.50	31.0	36.0	29.5	15.6	221.	.19	L.0	MAXIMUM
AVERAGE	5.95	11.9*	23.5	10.2*	7.5	68.	.12		MOYENNE
STD.DEV.	4.83	7.5*	6.3	7.2*	3.6	52.	.05		ECART-TYPE
PERCNT:10TH	1.40	8.0	17.	5.5	3.9	18.	.05		10 <sup>e</sup> PERCNT
25TH	2.0	8.5	18.0	7.0	4.2	40.	.09	L.0	25 <sup>e</sup>
MEDIAN 50TH	4.1	9.0	22.5	8.5	7.2	52.	.13	L.0	50 <sup>e</sup> MEDIANE
75TH	8.4	15.5	27.3	11.3	9.2	82.	.17	L.0	75 <sup>e</sup>
90TH	10.50	18.5	32.0	17.0	12.6	84.	.19		90 <sup>e</sup>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	13(0)	10(8)	6(1)	6(4)		6(3)	6(1)	10(2)	ECHANTILLONS(IND.)
LOW	.3	L.0	L.0	L.001		L.001	L.1	L.02	MINIMUM
HIGH	2.5	3.	33.	.010		.002	2.2	.30	MAXIMUM
AVERAGE	.76	1.2*	8.3*	.0037*		.001*	1.1*	.11*	MOYENNE
STD.DEV.	.57	.6*	12.2*	.0042*		.000*	.7*	.09*	ECART-TYPE
PERCNT:10TH	.35	L1.0		L.001		L.001	.8	L.02	10 <sup>e</sup> PERCNT
25TH	.5	L.0	3.	L.001		L.001	.1	.06	25 <sup>e</sup>
MEDIAN 50TH	.6	L1.0	3.5	L.0010		.001*	1.1	.10	50 <sup>e</sup> MEDIANE
75TH	.7	L1.0	6.	.008		.001	1.3	.14	75 <sup>e</sup>
90TH	1.20	2.0						.25	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINIUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)		7(0)	10(0)	1(1)	13(11)		10(6)		ECHANTILLONS(IND.)
LOW		.01	.05	L.05	L.001		L.003		MINIMUM
HIGH		.07	3.90	L.05	.002		.010		MAXIMUM
AVERAGE		.05	1.07		.001*		.004*		MOYENNE
STD.DEV.		.02	1.45		.000*		.002*		ECART-TYPE
PERCNT:10TH			.05		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.04	.25		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.06	.48		L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.07	.75		L.001		.003		75 <sup>e</sup>
90TH			3.78		.002		.008		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07KF0001** LAT. **58 D 39M 0 S** LONG. **111 D 18M 24 S**

UTM **12 482203E 6500907 N**  
JUN 01, 1977 TO/À MAR 27, 1979

MAMAWI LAKE CHANNEL - AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>4(4)</b>	<b>10(3)</b>	<b>13(0)</b>	<b>10(0)</b>	<b>12(2)</b>	<b>13(10)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.017</b>	<b>.32</b>	<b>L.002</b>	<b>L.002</b>	<b>.001</b>	<b>.003</b>	<b>L.0002</b>	<b>L.0002</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.26</b>	<b>12.50</b>	<b>L.002</b>	<b>L.02</b>	<b>.094</b>	<b>.081</b>	<b>.0028</b>	<b>L.0005</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.050</b>	<b>1.84</b>		<b>.005*</b>	<b>.017</b>	<b>.031</b>	<b>.0011*</b>	<b>.0002*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.066</b>	<b>3.29</b>		<b>.006*</b>	<b>.028</b>	<b>.026</b>	<b>.0010*</b>	<b>.0001*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.017</b>	<b>.39</b>		<b>L.002</b>	<b>.003</b>	<b>.003</b>	<b>.0003</b>	<b>L.0002</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.020</b>	<b>.41</b>	<b>L.002</b>	<b>.002</b>	<b>.003</b>	<b>.014</b>	<b>.0003</b>	<b>L.0002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.027</b>	<b>.77</b>	<b>L.002</b>	<b>.003</b>	<b>.006</b>	<b>.027</b>	<b>.0004*</b>	<b>L.0002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.043</b>	<b>1.30</b>	<b>L.002</b>	<b>.004</b>	<b>.014</b>	<b>.043</b>	<b>.0022</b>	<b>.0002</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.074</b>	<b>2.90</b>		<b>.013*</b>	<b>.060</b>	<b>.073</b>	<b>.0023</b>	<b>.0004</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			<b>2(2)</b>		<b>7(7)</b>			<b>13(6)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>L.00</b>		<b>L.001</b>			<b>L.0001</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>L.00</b>		<b>L.001</b>			<b>.0013</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>								<b>.0003*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>								<b>.0003*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>L.0001</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>L.001</b>			<b>L.0001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>L.00</b>		<b>L.001</b>			<b>.0001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>L.001</b>			<b>.0003</b>	<b>75<sup>e</sup></b>
<b>90TH</b>								<b>.0005</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>13(8)</b>	<b>13(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.002</b>	<b>2.</b>	<b>0.</b>	<b>5.</b>	<b>50.</b>	<b>2.</b>	<b>126.</b>	<b>97.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.004</b>	<b>8.</b>	<b>79.</b>	<b>240.</b>	<b>1000.</b>	<b>97.</b>	<b>379.</b>	<b>308.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.002*</b>	<b>3.</b>	<b>17.</b>	<b>59.</b>	<b>464.</b>	<b>31.</b>	<b>255.</b>	<b>204.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.001*</b>	<b>2.</b>	<b>28.</b>	<b>88.</b>	<b>420.</b>	<b>33.</b>	<b>91.</b>	<b>74.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.002</b>	<b>2.</b>				<b>2.</b>	<b>128.</b>	<b>107.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.002</b>	<b>2.</b>	<b>2.</b>	<b>8.</b>	<b>120.</b>	<b>4.</b>	<b>172.</b>	<b>136.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.002</b>	<b>2.</b>	<b>5.</b>	<b>16.</b>	<b>190.</b>	<b>19.</b>	<b>264.</b>	<b>198.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.003</b>	<b>4.</b>	<b>23.</b>	<b>110.</b>	<b>920.</b>	<b>46.</b>	<b>348.</b>	<b>259.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.003</b>	<b>4.</b>				<b>91.</b>	<b>368.</b>	<b>301.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

LAT 58° 39' 55" N LONG 111° 21' 24" W

STATION 00AT07KF0002 DATE JUN 01 1977 TO/A JUL 10 1979

CHENAL DES QUATRE FOURCHERS  
APPROXIMATELY 6500 METERS DOWNSTREAM

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE CM								
SAMPLES(FLAGS)	14(0)	14(0)	14(0)	6(0)	14(0)	5(0)	14(0)		ECHANTILLONS(IND.)
LOW	210.	113.	92.5	15.	1.2	7.1	88.0		MINIMUM
HIGH	500.	281.	174.1	50.	380.0	10.2	148.4		MAXIMUM
AVERAGE	317.	175.	123.9	28.	78.2		110.2		MOYENNE
STD.DEV.	107.	56.	26.4	14.	113.1		21.8		ECART-TYPE
PERCNT:10TH	216.	117.	97.1		6.2		90.0		10 <sup>e</sup> PERCNT
25TH	220.	121.	103.9	20.	7.4	7.7	91.6		25 <sup>e</sup>
MEDIAN 50TH	258.	159.	122.5	23.	30.8	7.9	100.3		50 <sup>e</sup> MEDIANE
75TH	439.	219.	143.9	40.	91.	8.2	131.8		75 <sup>e</sup>
90TH	450.	250.	166.3		280.		137.8		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID	K	NA	CA	MG	CO3	HCO3	CL	SO4	
SAMPLES(FLAGS)	14(0)	14(0)	14(0)	14(0)	14(8)	14(8)	14(0)	14(0)	ECHANTILLONS(IND.)
LOW	.9	5.2	26.0	6.7	0.	Q107.	2.6	11.0	MINIMUM
HIGH	2.7	36.0	45.50	15.0	Q0.	Q181.	50.0	54.0	MAXIMUM
AVERAGE	1.5	18.5	34.11	9.4	0.*	134.*	18.6	27.1	MOYENNE
STD.DEV.	.5	10.7	6.61	2.5	0.*	27.*	15.1	13.9	ECART-TYPE
PERCNT:10TH	1.0	7.5	27.00	7.1	0.	Q109.	2.8	11.0	10 <sup>e</sup> PERCNT
25TH	1.2	8.1	28.5	7.2	0.	Q111.	6.3	12.8	25 <sup>e</sup>
MEDIAN 50TH	1.4	15.6	33.80	8.9	0.	122.	13.5	25.5	50 <sup>e</sup> MEDIANE
75TH	1.7	28.2	39.50	11.0	Q0.	Q160.	31.2	39.3	75 <sup>e</sup>
90TH	2.4	32.0	45.00	12.8	Q0.	168.	34.0	44.0	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO P04 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID	N	NO3 & NO2	NITRITE	AMMONIA	N	P	P	P04	
SAMPLES(FLAGS)	14(0)	13(3)	8(2)	13(1)		13(2)	14(0)		ECHANTILLONS(IND.)
LOW	.13	L.003	L.003	.006		L.003	.020		MINIMUM
HIGH	9.15	.360	.011	.081		.280	.470		MAXIMUM
AVERAGE	1.301	.099*	.007*	.042*		.035*	.118		MOYENNE
STD.DEV.	2.281	.113*	.004*	.024*		.076*	.138		ECART-TYPE
PERCNT:10TH	.40	L.003		L.01		.003	.026		10 <sup>e</sup> PERCNT
25TH	.54	.01	.003*	.02		.005	.036		25 <sup>e</sup>
MEDIAN 50TH	.620	.055	.007	.050		.007	.043		50 <sup>e</sup> MEDIANE
75TH	1.01	.173	.011	.055		.013	.12		75 <sup>e</sup>
90TH	1.25	.21		.07		.080	.360		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **00AT07KF0002** LAT. **58 D 39 M 55 S** LONG. **111 D 21 M 24 S**UTM **12 479320 E 6502620 N**  
JUN 01, 1977 TO/À JUL 10, 1979CHENAL DES QUATRE FOURCHERS  
APPROXIMATELY 6500 METERS DOWNSTREAM

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>14(0)</b>	<b>13(0)</b>	<b>12(0)</b>	<b>13(0)</b>	<b>10(0)</b>	<b>14(0)</b>	<b>11(0)</b>	<b>7(7)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>3.0</b>	<b>6.0</b>	<b>16.</b>	<b>4.5</b>	<b>3.5</b>	<b>12.</b>	<b>.07</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>10.50</b>	<b>27.5</b>	<b>35.0</b>	<b>21.0</b>	<b>12.2</b>	<b>107.</b>	<b>.15</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>5.49</b>	<b>12.5</b>	<b>22.6</b>	<b>10.2</b>	<b>7.0</b>	<b>49.</b>	<b>.11</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>2.37</b>	<b>5.3</b>	<b>5.5</b>	<b>4.6</b>	<b>3.0</b>	<b>28.</b>	<b>.03</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>3.3</b>	<b>8.0</b>	<b>18.</b>	<b>5.5</b>	<b>3.5</b>	<b>20.</b>	<b>.09</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>3.90</b>	<b>10.0</b>	<b>19.5</b>	<b>6.5</b>	<b>4.3</b>	<b>27.</b>	<b>.09</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>4.50</b>	<b>12.</b>	<b>20.5</b>	<b>9.5</b>	<b>7.0</b>	<b>46.</b>	<b>.12</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>7.40</b>	<b>14.5</b>	<b>24.0</b>	<b>13.0</b>	<b>9.6</b>	<b>55.</b>	<b>.14</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>9.00</b>	<b>16.0</b>	<b>31.5</b>	<b>15.</b>	<b>11.0</b>	<b>95.</b>	<b>.14</b>		<b>90<sup>e</sup></b>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>12(11)</b>	<b>8(1)</b>	<b>7(6)</b>		<b>8(5)</b>	<b>7(0)</b>	<b>11(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.2</b>	<b>L.0.</b>	<b>L.0.</b>	<b>L.001</b>		<b>L.001</b>	<b>.2</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.9</b>	<b>1.</b>	<b>26.</b>	<b>.007</b>		<b>.002</b>	<b>1.3</b>	<b>.40</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.80</b>	<b>1.0*</b>	<b>7.7*</b>	<b>.0019*</b>		<b>.001*</b>	<b>.6</b>	<b>.13*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.50</b>	<b>.0*</b>	<b>8.0*</b>	<b>.0023*</b>		<b>.000*</b>	<b>.4</b>	<b>.12*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.4</b>	<b>L1.0</b>						<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.4</b>	<b>L1.0</b>	<b>3.0</b>	<b>L.001</b>		<b>L.001</b>	<b>.3</b>	<b>.05</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.60</b>	<b>L1.0</b>	<b>5.0</b>	<b>L.001</b>		<b>L.001</b>	<b>.5</b>	<b>.08</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.3</b>	<b>L1.0</b>	<b>9.5</b>	<b>L.001</b>		<b>.001</b>	<b>1.0</b>	<b>.20</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.30</b>	<b>L0.</b>						<b>.25</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>		<b>6(0)</b>	<b>12(0)</b>		<b>14(14)</b>		<b>11(7)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.03</b>	<b>.05</b>		<b>L.001</b>		<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.09</b>	<b>3.85</b>		<b>L.001</b>		<b>.008</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.06</b>	<b>1.05</b>				<b>.004*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.02</b>	<b>1.35</b>				<b>.002*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			<b>.05</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.04</b>	<b>.19</b>		<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.06</b>	<b>.29</b>		<b>L.001</b>		<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.07</b>	<b>1.48</b>		<b>L.001</b>		<b>.006</b>		<b>75<sup>e</sup></b>
<b>90TH</b>			<b>3.55</b>		<b>L.001</b>		<b>.008</b>		<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07KF0002 LAT. 58 D 39 M 55 S LONG. 111 D 21 M 24 S

UTM 12 479320E 6502620 N  
JUN 01 1977 TO/A JUL 10 1979CHENAL DES QUATRE FOURCHERS  
APPROXIMATELY 6500 METERS DOWNSTREAM

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	14(0)	14(0)	4(3)	12(5)	14(0)	12(0)	13(5)	13(10)	ECHANTILLONS(IND.)
LOW	.017	.37	L.002	L.001	.001	.002	L.0002	L.0002	MINIMUM
HIGH	.245	9.60	.002	.021	.033	.043	.0032	.0008	MAXIMUM
AVERAGE	.063	2.34	.002*	.004*	.007	.015	.0009*	.0003*	MOYENNE
STD.DEV.	.062	2.94	.000*	.005*	.009	.012	.0009*	.0002*	ECART-TYPE
PERCNT:10TH	.020	.54		L.001	.001	.005	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.027	.56	L.002	L.002	.002	.008	L.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.042	.98	L.002	.003	.004	.012	L.0005	L.0002	50 <sup>e</sup> MEDIANE
75TH	.078	2.50	.002*	.004	.011	.019	.0012	.0002	75 <sup>e</sup>
90TH	.140	8.00		.007	.014	.034	.0019	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			2(2)		6(6)			14(10)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.00		L.001			.0003	MAXIMUM
AVERAGE								.0001*	MOYENNE
STD.DEV.								.0001*	ECART-TYPE
PERCNT:10TH								L.0001	10 <sup>e</sup> PERCNT
25TH					L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH					L.001			.0001	75 <sup>e</sup>
90TH								.0003	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO ML	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO 100ML	MPN NO 100ML		MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	14(12)	13(0)	8(0)	8(0)	8(0)	14(0)	14(0)	14(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	130.	3.	130.	100.	MINIMUM
HIGH	.008	8.	70.	110.	2000.	419.	330.	236.	MAXIMUM
AVERAGE	.002*	4.	11.	18.	728.	99.	204.	158.	MOYENNE
STD.DEV.	.002*	3.	24.	37.	696.	128.	74.	51.	ECART-TYPE
PERCNT:10TH	L.002	2.				5.	135.	101.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	2.	155.	14.	138.	109.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	1.	5.	515.	39.	170.	142.	50 <sup>e</sup> MEDIANE
75TH	L.002	4.	6.	13.	1175.	130.	289.	201.	75 <sup>e</sup>
90TH	.002	8.				310.	297.	229.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07KF0003** LAT. **58 D 37M 25 S** LONG. **111 D 40M 50 S**

UTM **12 460480 E 6498130 N**  
JUN 01, 1977 TO/A MAR 27, 1979

PRAIRIE RIVER-WSC. SITE -AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL CACO3	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>6(0)</b>	<b>12(0)</b>	<b>5(0)</b>	<b>12(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	255.	132.	112.9	20.	7.8	7.0	84.7		MINIMUM
HIGH	945.	549.	294.4	70.	425.	10.4	210.0		MAXIMUM
AVERAGE	495.	286.	170.1	33.	114.9		125.1		MOYENNE
STD.DEV.	203.	127.	65.0	19.	142.9		38.7		ECART-TYPE
PERCNT:10TH	261.	148.	121.1		10.0		95.8		10 <sup>e</sup> PERCNT
25TH	395.	220.	125.3	20.	11.5	7.8	100.9		25 <sup>e</sup>
MEDIAN 50TH	443.	252.	148.5	28.	47.5	8.	109.5		50 <sup>e</sup> MEDIANE
75TH	569.	342.	193.0	35.	183.0	8.1	143.5		75 <sup>e</sup>
90TH	800.	474.	292.3		340.		186.3		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>12(6)</b>	<b>12(6)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	1.7	7.5	32.5	7.7	0.	Q103.	5.3	19.7	MINIMUM
HIGH	4.5	92.0	77.5	24.5	Q0.	256.	106.0	120.0	MAXIMUM
AVERAGE	2.6	39.5	45.93	13.5	0.*	152.*	47.0	62.5	MOYENNE
STD.DEV.	.9	22.4	16.49	5.8	0.*	47.*	27.1	36.7	ECART-TYPE
PERCNT:10TH	1.8	10.5	33.20	8.5	0.	117.	8.5	19.8	10 <sup>e</sup> PERCNT
25TH	1.9	29.8	35.25	9.4	0.	123.	35.9	42.3	25 <sup>e</sup>
MEDIAN 50TH	2.5	37.5	40.25	11.3	0.	133.	46.5	50.3	50 <sup>e</sup> MEDIANE
75TH	3.3	46.5	51.00	16.3	0.	175.	56.3	89.5	75 <sup>e</sup>
90TH	3.4	61.0	77.50	24.0	Q0.	Q227.	76.5	120.0	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>12(0)</b>	<b>12(1)</b>	<b>6(1)</b>	<b>11(0)</b>		<b>12(0)</b>	<b>12(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW	.10	.003	L.003	.015		.003	.028		MINIMUM
HIGH	6.04	.270	.017	.340		.031	.31		MAXIMUM
AVERAGE	1.993	.059*	.007*	.075		.011	.100		MOYENNE
STD.DEV.	1.420	.079*	.005*	.091		.008	.085		ECART-TYPE
PERCNT:10TH	1.36	.004		.016		.003	.038		10 <sup>e</sup> PERCNT
25TH	1.450	.009*	.003	.024		.007	.042		25 <sup>e</sup>
MEDIAN 50TH	1.625	.028	.005	.06		.009	.070		50 <sup>e</sup> MEDIANE
75TH	2.065	.086	.006	.07		.015	.133		75 <sup>e</sup>
90TH	2.80	.130		.090		.022	.20		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION: 00AT07KF0003 LAT 58° 37' 25" S LONG 111° 40' 50" W

UTM 12 460480 6498130  
JUN 01 1977 TO/A MAR 27 1979

PRAIRIE RIVER WSC. SITE -AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	10(1)		ECHANTILLONS(IND.)
LOW	1.40	6.0	12.5	6.0	3.7	18.	L.05		MINIMUM
HIGH	14.20	61.0	45.0	60.0	15.2	258.	.31		MAXIMUM
AVERAGE	5.19	24.4	26.0	22.2	9.7	87.	.16*		MOYENNE
STD.DEV.	4.27	17.8	9.4	18.3	3.4	64.	.07*		ECART-TYPE
PERCNT:10TH	1.80	10.0	16.	8.0	5.4	30.	.07*		10 <sup>e</sup> PERCNT
25TH	2.05	12.8	19.8	10.5	7.1	40.	.14		25 <sup>e</sup>
MEDIAN 50TH	3.85	17.0	23.8	13.3	10.0	77.	.16		50 <sup>e</sup> MEDIANE
75TH	7.05	34.3	34.0	32.5	11.3	111.	.19		75 <sup>e</sup>
90TH	12.50	54.0	35.5	53.0	14.3	123.	.26		90 <sup>e</sup>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
SAMPLES(FLAGS)	12(0)	10(7)	6(0)					10(2)	ECHANTILLONS(IND.)
LOW	.3	L0.	2.					L.02	MINIMUM
HIGH	5.6	6.	63.					.54	MAXIMUM
AVERAGE	1.45	2.0*	26.5					.17*	MOYENNE
STD.DEV.	1.58	1.8*	24.9					.15*	ECART-TYPE
PERCNT:10TH	.40	L1.0						L.02	10 <sup>e</sup> PERCNT
25TH	.60	L1.0	4.					.07	25 <sup>e</sup>
MEDIAN 50TH	.80	L1.0	23.0					.12	50 <sup>e</sup> MEDIANE
75TH	1.80	3.	44.					.24	75 <sup>e</sup>
90TH	3.1	5.0						.40	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		12(0)	10(0)	1(1)	11(5)		10(4)		ECHANTILLONS(IND.)
LOW		.04	.20	L.05	L.001		L.003		MINIMUM
HIGH		.28	30.4	L.05	.007		.025		MAXIMUM
AVERAGE		.12	6.53		.002*		.008*		MOYENNE
STD.DEV.		.08	10.27		.002*		.008*		ECART-TYPE
PERCNT:10TH		.05	.20		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.06	.31		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.09	.65		.001		.003		50 <sup>e</sup> MEDIANE
75TH		.18	11.5		.002		.007		75 <sup>e</sup>
90TH		.21	23.95		.003		.022		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07KF0003** LAT. **58 D 37 M 25 S** LONG. **111 D 40 M 50 S**

UTM **12 460480E 6498130 N**  
JUN 01, 1977 TO/A MAR 27, 1979

PRAIRIE RIVER-WSC. SITE -AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBL.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	12(0)	12(0)	4(3)	10(1)	12(0)	10(0)	12(2)	12(5)	<b>ECHANTILLONS(IND.)</b>
LOW	.009	.40	L.002	L.002	.003	.005	L.0002	L.0002	MINIMUM
HIGH	.440	15.1	.002	.013	.013	.044	.0051	.0011	MAXIMUM
AVERAGE	.116	4.27	.002*	.005*	.008	.023	.0016*	.0004*	MOYENNE
STD.DEV.	.144	5.32	.000*	.004*	.004	.013	.0017*	.0003*	ECART-TYPE
PERCNT:10TH	.014	.52		.002*	.003	.007	.0003	L.0002	10 <sup>e</sup> PERCNT
25TH	.016	.75	L.002	.003	.004	.009	.0004	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.033	1.54	L.002	.004	.008	.024	.0006*	.0004	50 <sup>e</sup> MEDIANE
75TH	.217	7.67	.002*	.006	.011	.034	.0029	.0005*	75 <sup>e</sup>
90TH	.285	12.50		.011	.013	.040	.0042	.0006	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			2(2)		6(5)			12(8)	<b>ECHANTILLONS(IND.)</b>
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.00		.009			.0009	MAXIMUM
AVERAGE					.002*			.0002*	MOYENNE
STD.DEV.					.003*			.0002*	ECART-TYPE
PERCNT:10TH								L.0001	10 <sup>e</sup> PERCNT
25TH					L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH					L.001			.0002	75 <sup>e</sup>
90TH								.0005	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	12(6)	12(0)	7(0)	7(0)	7(0)	12(0)	12(0)	12(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.002	2.	0.	0.	60.	5.	153.	117.	MINIMUM
HIGH	.009	4.	22.	23.	4200.	410.	625.	561.	MAXIMUM
AVERAGE	.003*	3.	3.	11.	1171.	107.	313.	247.	MOYENNE
STD.DEV.	.002*	1.	8.	9.	1811.	138.	143.	116.	ECART-TYPE
PERCNT:10TH	L.002	2.				9.	157.	139.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	2.	80.	10.	229.	192.	25 <sup>e</sup>
MEDIAN 50TH	.002*	2.	0.	7.	160.	33.	269.	215.	50 <sup>e</sup> MEDIANE
75TH	.004	3.	2.	22.	3400.	189.	376.	280.	75 <sup>e</sup>
90TH	.004	4.				314.	528.	340.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00AT07NA0001 LAT. 58 D 50 M 42 S LONG. 111 D 15 M 32 S

UTM 12 485060E 6522610 N  
SEP 07 1976 TO/A OCT 23 1979RIVIERE DES ROCHERS  
150 METERS UPSTREAM OF REVILLION COUPE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00216L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE CM								
SAMPLES(FLAGS)	17(0)	17(0)	17(0)	6(4)	16(0)	3(0)	17(0)	1(0)	ECHANTILLONS(IND.)
LOW	104.	54.	47.7	L5.	.5	7.6	45.8	-.3	MINIMUM
HIGH	210.	112.	91.7	114.	160.	8.7	90.7	-.3	MAXIMUM
AVERAGE	160.	86.	69.6	26.*	45.5		64.5		MOYENNE
STD.DEV.	26.	16.	14.6	44.*	46.7		13.6		ECART-TYPE
PERCNT:10TH	130.	63.	48.5		1.5		47.0		10 <sup>e</sup> PERCNT
25TH	145.	80.	58.1	L5	6.5		55.1		25 <sup>e</sup>
MEDIAN 50TH	160.	87.	67.5	L5.	44.5	8.2	62.4		50 <sup>e</sup> MEDIANE
75TH	176.	96.	81.5	20.	58.5		72.7		75 <sup>e</sup>
90TH	205.	106.	91.3		122.		84.3		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	17(0)	17(0)	17(0)	17(0)	17(10)	17(10)	17(0)	17(0)	ECHANTILLONS(IND.)
LOW	.6	2.5	13.00	3.7	0.	Q56.	1.6	3.1	MINIMUM
HIGH	1.4	8.3	26.0	6.7	Q0.	Q110.	8.5	12.7	MAXIMUM
AVERAGE	1.0	6.6	19.22	5.2	0.*	78.*	6.0	9.3	MOYENNE
STD.DEV.	.2	1.4	4.43	.9	0.*	17.*	1.7	2.7	ECART-TYPE
PERCNT:10TH	.7	4.7	13.00	3.9	0.	57.	4.5	5.0	10 <sup>e</sup> PERCNT
25TH	.9	6.3	15.5	4.7	0.	Q67.	5.1	7.5	25 <sup>e</sup>
MEDIAN 50TH	1.1	7.0	19.10	5.0	Q0.	Q76.	5.9	10.0	50 <sup>e</sup> MEDIANE
75TH	1.2	7.5	22.40	5.8	Q0.	89.	7.6	11.6	75 <sup>e</sup>
90TH	1.3	8.2	25.50	6.5	Q0.	103.	8.2	12.2	90 <sup>e</sup>
SECONDARY CODE	02L 03L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	16(0)	16(0)	12(5)	14(2)	1(0)	15(2)	15(0)		ECHANTILLONS(IND.)
LOW	.10	.004	L.003	L.002	.19	L.003	.009		MINIMUM
HIGH	3.33	.800	.010	.11	.19	.060	.195		MAXIMUM
AVERAGE	1.012	.101	.005*	.034*		.015*	.064		MOYENNE
STD.DEV.	.952	.199	.003*	.029*		.018*	.056		ECART-TYPE
PERCNT:10TH	.14	.005	L.003	.008		L.003	.013		10 <sup>e</sup> PERCNT
25TH	.315	.012	L.003	.010		.003	.017		25 <sup>e</sup>
MEDIAN 50TH	.600	.034	.003	.033		.007	.050		50 <sup>e</sup> MEDIANE
75TH	1.705	.086	.006	.048		.014	.102		75 <sup>e</sup>
90TH	2.32	.290	.008	.069		.057	.146		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00AT07NA0001** LAT. **58 D 50 M 42 S** LONG. **111 D 15 M 32 S**

UTM **12 485060E 6522610N**  
SEP 07, 1976 TO/À OCT 23, 1979

RIVIERE DES ROCHERS  
150 METERS UPSTREAM OF REVILLION COUPE

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SI02 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>17(0)</b>	<b>17(0)</b>	<b>16(0)</b>	<b>16(0)</b>	<b>13(0)</b>	<b>15(0)</b>	<b>11(3)</b>	<b>10(10)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>3.5</b>	<b>2.0</b>	<b>8.5</b>	<b>1.5</b>	<b>3.4</b>	<b>7.</b>	<b>L.05</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>10.20</b>	<b>17.</b>	<b>18.0</b>	<b>10.5</b>	<b>15.8</b>	<b>293.</b>	<b>.12</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>4.75</b>	<b>7.0</b>	<b>13.3</b>	<b>6.1</b>	<b>8.7</b>	<b>40.</b>	<b>.07*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.50</b>	<b>3.5</b>	<b>3.2</b>	<b>2.7</b>	<b>3.6</b>	<b>72.</b>	<b>.02*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>3.70</b>	<b>3.0</b>	<b>9.5</b>	<b>1.5</b>	<b>4.6</b>	<b>7.</b>	<b>L.05</b>	<b>L.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>4.00</b>	<b>5.0</b>	<b>10.3</b>	<b>4.3</b>	<b>5.7</b>	<b>9.</b>	<b>L.05</b>	<b>L.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>4.4</b>	<b>6.5</b>	<b>13.5</b>	<b>6.5</b>	<b>9.2</b>	<b>17.</b>	<b>.07</b>	<b>L.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>4.8</b>	<b>8.</b>	<b>16.3</b>	<b>7.8</b>	<b>9.5</b>	<b>33.</b>	<b>.09</b>	<b>L.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>5.40</b>	<b>11.0</b>	<b>17.6</b>	<b>10.0</b>	<b>14.2</b>	<b>60.</b>	<b>.09</b>	<b>L.0</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L						07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHATS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>13(1)</b>	<b>13(13)</b>	<b>10(3)</b>	<b>7(7)</b>		<b>10(6)</b>	<b>10(1)</b>	<b>10(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.1</b>	<b>L.0.</b>	<b>L.0.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.9</b>	<b>L.0.</b>	<b>22.</b>	<b>L.001</b>		<b>.003</b>	<b>2.8</b>	<b>.37</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.48*</b>		<b>4.8*</b>			<b>.001*</b>	<b>1.1*</b>	<b>.11*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.50*</b>		<b>6.4*</b>			<b>.001*</b>	<b>1.0*</b>	<b>.11*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.2</b>	<b>L.0.</b>	<b>L.1.0</b>			<b>L.001</b>	<b>.1*</b>	<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.2</b>	<b>L.0.</b>	<b>L.0.</b>	<b>L.001</b>		<b>L.001</b>	<b>.5</b>	<b>.03</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.2</b>	<b>L.0.</b>	<b>3.0</b>	<b>L.001</b>		<b>L.001</b>	<b>.7</b>	<b>.10</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.50</b>	<b>L.1.0</b>	<b>4.</b>	<b>L.001</b>		<b>.002</b>	<b>1.9</b>	<b>.14</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.0</b>	<b>L.0.</b>	<b>15.0</b>			<b>.003</b>	<b>2.7</b>	<b>.28</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		<b>7(3)</b>	<b>13(0)</b>	<b>1(1)</b>	<b>16(14)</b>	<b>1(0)</b>	<b>13(9)</b>	<b>1(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.01</b>	<b>.03</b>	<b>L.05</b>	<b>L.001</b>	<b>.001</b>	<b>L.003</b>	<b>L.015</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.08</b>	<b>3.85</b>	<b>L.05</b>	<b>.001</b>	<b>.001</b>	<b>.008</b>	<b>L.015</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.03*</b>	<b>.86</b>		<b>.001*</b>		<b>.004*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.03*</b>	<b>1.14</b>		<b>.000*</b>		<b>.002*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			<b>.06</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.01</b>	<b>.26</b>		<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.01</b>	<b>.47</b>		<b>L.001</b>		<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.07</b>	<b>.58</b>		<b>L.001</b>		<b>.005</b>		<b>75<sup>e</sup></b>
<b>90TH</b>			<b>2.60</b>		<b>.001</b>		<b>.007</b>		<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L	02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00AT07NA0001 LAT 58 D 50 M 42 S LONG 111 D 15 M 32 S

TM 12 485060 6522610  
SEP 07 1976 TO/A OCT 23 1979RIVIERE DES ROCHERS  
150 METERS UPSTREAM OF REVILLION COUPE

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED AS	34102L SELENIUM DISSOLVED SE	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	17(0)	17(0)	4(3)	14(7)	17(1)	14(0)	17(5)	17(12)	ECHANTILLONS(IND.)
LOW	.004	.13	L.002	L.001	L.001	.001	L.0002	L.0002	MINIMUM
HIGH	.155	9.65	.004	.006	.260	.048	.0016	.0005	MAXIMUM
AVERAGE	.039	1.76	.002*	.003*	.019*	.014	.0007*	.0002*	MOYENNE
STD.DEV.	.040	2.34	.001*	.002*	.062*	.012	.0004*	.0001*	ECART-TYPE
PERCNT:10TH	.005	.15		L.001	.002	.004	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.006	.20	L.002	L.001	.002	.005	.0003	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.038	1.33	L.002	.002*	.004	.010	.0006	L.0002	50 <sup>e</sup> MEDIANE
75TH	.046	1.80	.003*	.004	.006	.018	.0010	.0002	75 <sup>e</sup>
90TH	.105	4.80		.006	.012	.031	.0013	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L		01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED CD	48301L CADMIUM EXTRBLE. CD	51301L ANTIMONY EXTRBLE. SB	56301L BARIUM EXTRBLE. BA	80011L MERCURY TOTAL HG	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)			1(1)		10(10)			16(7)	ECHANTILLONS(IND.)
LOW			L.00		L.001			.0000	MINIMUM
HIGH			L.00		L.001			.0009	MAXIMUM
AVERAGE								.0002*	MOYENNE
STD.DEV.								.0003*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH					L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH					L.001			.0001*	50 <sup>e</sup> MEDIANE
75TH					L.001			.0002	75 <sup>e</sup>
90TH					L.001			.0008	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO./ML	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO./ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	17(14)	13(0)	12(0)	12(0)	12(0)	16(0)	16(0)	16(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	40.	1.	69.	49.	MINIMUM
HIGH	.004	8.	23.	70.	1300.	200.	131.	101.	MAXIMUM
AVERAGE	.002*	3.	4.	13.	307.	50.	101.	78.	MOYENNE
STD.DEV.	.001*	2.	9.	20.	377.	54.	17.	16.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	0.	70.	2.	78.	51.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	0.	80.	9.	90.	66.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	0.	6.	120.	45.	102.	82.	50 <sup>e</sup> MEDIANE
75TH	L.002	2.	2.	17.	335.	64.	114.	87.	75 <sup>e</sup>
90TH	L.004	4.	23.	23.	800.	137.	125.	98.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00SA07LA0001** LAT. **57 D 35 M 20 S** LONG. **104 D 12 M 10 S**

UTM **13 547600E 6383000 N**  
JUN 10, 1971 TO/A OCT 03, 1979

GEIKIE RIVER BELOW JUNCTION OF  
WHEELER RIVER, SASKATCHEWAN

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM									
<b>SAMPLES(FLAGS)</b>	<b>0001</b>	<b>25(0)</b>	<b>24(4)</b>	<b>8(0)</b>	<b>25(1)</b>	<b>24(0)</b>	<b>25(0)</b>	<b>22(0)</b>	<b>24(4)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0469</b>	<b>20.</b>	<b>Q8.</b>	<b>8.0</b>	<b>L5.</b>	<b>.4</b>	<b>6.5</b>	<b>6.</b>	<b>Q-5.5</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0060</b>	<b>33.</b>	<b>17.</b>	<b>12.2</b>	<b>25.</b>	<b>3.4</b>	<b>7.3</b>	<b>11.0</b>	<b>-2.9</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>25.</b>	<b>12.*</b>	<b>9.7</b>	<b>13.*</b>	<b>1.2</b>		<b>8.3</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>3.</b>	<b>2.*</b>	<b>1.4</b>	<b>7.*</b>	<b>.8</b>		<b>1.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>22.</b>	<b>9.</b>		<b>5.</b>	<b>.6</b>	<b>6.5</b>	<b>6.6</b>	<b>-3.6</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>23.</b>	<b>11.</b>	<b>8.6</b>	<b>10.</b>	<b>.8</b>	<b>6.7</b>	<b>7.2</b>	<b>-3.5</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>26.</b>	<b>12.</b>	<b>9.6</b>	<b>10.</b>	<b>1.0</b>	<b>6.9</b>	<b>8.1</b>	<b>-3.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>27.</b>	<b>13.</b>	<b>10.4</b>	<b>20.</b>	<b>1.4</b>	<b>7.0</b>	<b>8.9</b>	<b>-3.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>29.</b>	<b>14.</b>		<b>20.</b>	<b>2.4</b>	<b>7.2</b>	<b>10.4</b>	<b>-3.0</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	<b>0001</b>	<b>25(0)</b>	<b>25(0)</b>	<b>24(1)</b>	<b>16(0)</b>	<b>24(1)</b>	<b>24(1)</b>	<b>25(1)</b>	<b>9(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0060</b>	<b>.1</b>	<b>.9</b>	<b>L.01</b>	<b>.1</b>	<b>0.</b>	<b>7.</b>	<b>L.1</b>	<b>L.1.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0469</b>	<b>1.2</b>	<b>2.0</b>	<b>3.3</b>	<b>1.7</b>	<b>0.</b>	<b>13.</b>	<b>1.5</b>	<b>3.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.6</b>	<b>1.2</b>	<b>2.30*</b>	<b>.7</b>	<b>0.*</b>	<b>10.*</b>	<b>.6*</b>	<b>1.5*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.2</b>	<b>.2</b>	<b>.65*</b>	<b>.5</b>	<b>0.*</b>	<b>2.*</b>	<b>.3*</b>	<b>.6*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.4</b>	<b>1.0</b>	<b>2.0</b>	<b>.1</b>	<b>0.</b>	<b>8.</b>	<b>.3</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.4</b>	<b>1.1</b>	<b>2.00</b>	<b>.2</b>	<b>0.</b>	<b>9.</b>	<b>.3</b>	<b>1.3</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.5</b>	<b>1.2</b>	<b>2.30</b>	<b>.8</b>	<b>0.</b>	<b>10.</b>	<b>.4</b>	<b>1.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.6</b>	<b>1.3</b>	<b>2.70</b>	<b>1.0</b>	<b>0.</b>	<b>12.</b>	<b>.7</b>	<b>1.6</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.9</b>	<b>1.5</b>	<b>3.1</b>	<b>1.5</b>	<b>0.</b>	<b>13.</b>	<b>1.0</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										03L 06L 04L CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	<b>0001</b>	<b>10(3)</b>	<b>13(5)</b>	<b>3(2)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>6(2)</b>	<b>4(4)</b>	<b>7(5)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0469</b>	<b>L.1</b>	<b>L.001</b>	<b>L.1</b>	<b>.13</b>	<b>.02</b>	<b>L.003</b>	<b>L.002</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0060</b>	<b>.6</b>	<b>.220</b>	<b>.1</b>	<b>.23</b>	<b>.12</b>	<b>.003</b>	<b>L.002</b>	<b>.059</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.3*</b>	<b>.047*</b>	<b>.1*</b>	<b>.18</b>	<b>.072</b>	<b>.003*</b>		<b>.010*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.2*</b>	<b>.064*</b>	<b>.0*</b>	<b>.04</b>	<b>.033</b>	<b>.000*</b>		<b>.022*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.1</b>	<b>L.001</b>							<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.3</b>	<b>L.01</b>		<b>.15</b>	<b>.06</b>	<b>L.003</b>	<b>L.002</b>	<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.3</b>	<b>.020</b>	<b>L.1</b>	<b>.20</b>	<b>.070</b>	<b>.003</b>	<b>L.002</b>	<b>L.001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.4</b>	<b>.06</b>		<b>.20</b>	<b>.09</b>	<b>.003</b>	<b>L.002</b>	<b>.007</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.5*</b>	<b>.140</b>							<b>90<sup>e</sup></b>
SECONDARY CODE										01L 64L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00SA07LA0001 LAT 57 D 35 M 20 S LONG. 104 D 12 M 10 S

UTM 13 547600E 6383000 N  
JUN 10 1971 TO A OCT 03 1979GEIKIE RIVER BELOW JUNCTION OF  
WHEELER RIVER SASKATCHEWAN

		15405L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	
	SUBM ID	P MG/L	SiO2 MG/L	C MG/L	O2 MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	
SAMPLES(FLAGS)	0001	18(0)	25(0)	18(0)	15(0)	8(0)	5(5)	3(3)	11(11)	ECHANTILLONS(IND.)
LOW	0060	.008	2.5	3.0	8.3	.03	L.10	L.001	L.010	MINIMUM
HIGH	0469	.08	10.4	8.	11.8	.09	L.10	L.001	L.015	MAXIMUM
AVERAGE		.016	6.4	5.8	9.9	.06				MOYENNE
STD.DEV.		.017	1.7	1.5	1.1	.02				ECART-TYPE
PERCNT:10TH		.009	4.6	3.5	8.5				L.010	10 <sup>e</sup> PERCNT
25TH		.009	5.5	5.	8.8	.05	L.10		L.010	25 <sup>e</sup>
MEDIAN 50TH		.011	6.0	6.0	9.9	.05	L.10	L.001	L.015	50 <sup>e</sup> MEDIANE
75TH		.014	7.2	7.	11.1	.07	L.10		L.015	75 <sup>e</sup>
90TH		.026	8.8	8.	11.4				L.015	90 <sup>e</sup>
SECONDARY CODE		13L	05L							CODE DE SECOURS

		25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	
	SUBM ID	MN MG/L	FE MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0001	13(3)	4(2)	12(0)	12(8)	11(7)	11(8)	12(5)	8(8)	ECHANTILLONS(IND.)
LOW	0469	L.01	L.001	.09	L.001	L.001	L.001	L.001	L.0005	MINIMUM
HIGH	0060	.04	.050	.23	.002	.004	.003	.018	L.005	MAXIMUM
AVERAGE		.02*	.020*	.16	.002*	.002*	.001*	.004*		MOYENNE
STD.DEV.		.01*	.024*	.04	.000*	.001*	.001*	.005*		ECART-TYPE
PERCNT:10TH		L.01		.09	L.001	L.001	L.001	L.001		10 <sup>e</sup> PERCNT
25TH		.02	L.001	.15	L.001	L.001	L.001	L.001	L.0005	25 <sup>e</sup>
MEDIAN 50TH		.02	.015*	.17	L.002	L.002	L.001	.001	L.0005	50 <sup>e</sup> MEDIANE
75TH		.03	.040	.19	.002	.004	.002	.005	L.0027	75 <sup>e</sup>
90TH		.04		.23	.002	.004	.002	.007		90 <sup>e</sup>
SECONDARY CODE		04L			02L	02L			04L	CODE DE SECOURS

		34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	60311P MERCURY EXTRBLE.	82302P LEAD EXTRBLE.	
	SUBM ID	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	BA MG/L	HG UG/L	PB MG/L	
SAMPLES(FLAGS)	0001	5(5)	5(4)	1(1)	5(5)	12(10)	8(8)	10(9)	12(11)	ECHANTILLONS(IND.)
LOW	0060	L.0005	L.02	L.05	L.01	L.001	L.0	L.02	L.001	MINIMUM
HIGH	0469	L.0005	.04	L.05	L.01	.001	L.1	.10	L.05	MAXIMUM
AVERAGE			.02*			.001*		.04*	.008*	MOYENNE
STD.DEV.			.01*			.000*		.02*	.014*	ECART-TYPE
PERCNT:10TH						L.001		L.02	L.001	10 <sup>e</sup> PERCNT
25TH		L.0005	L.02		L.01	L.001	L.0	L.02	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.0005	L.02		L.01	L.001	L.1	L.05	L.004	50 <sup>e</sup> MEDIANE
75TH		L.0005	L.02		L.01	L.001	L.1	L.05	L.004	75 <sup>e</sup>
90TH						.001		.07*	.016	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00SA07LA0001** LAT. **57 D 35M 20 S** LONG. **104 D 12M 10 S**

UTM **13 547600E 6383000 N**  
AUG 12, 1972 TO/À AUG 12, 1972

GEIKIE RIVER BELOW JUNCTION OF  
WHEELER RIVER, SASKATCHEWAN

		18130L ALDRIN	18070L GAMMA- BHC (LINDANE)	18530L DICAMBA	18150L HEOD (DIELDRIN)	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	0001	1(1)	1(0)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>	<b>.001</b>	<b>L.006</b>	<b>L.002</b>	<b>L.002</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.001</b>	<b>.001</b>	<b>L.006</b>	<b>L.002</b>	<b>L.002</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>										<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

		18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18160L AROCOR 1254 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	0001	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>L.012</b>	<b>L.004</b>	<b>L.001</b>	<b>L.032</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.001</b>	<b>L.003</b>	<b>L.001</b>	<b>L.002</b>	<b>L.012</b>	<b>L.004</b>	<b>L.001</b>	<b>L.032</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>										<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

		18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	06711L CHLORO- PHYLL A	06713L CHLORO- PHYLL C	08401L OXYGEN CONSUMED	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	UG/L	UG/L	MG/L	MG/L	O2 MG/L	F MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0001	1(1)	1(1)	17(9)	10(4)	2(0)	23(19)	15(6)	9(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0060	<b>L.024</b>	<b>L.055</b>	<b>L.001</b>	<b>L.001</b>	<b>3.9</b>	<b>L.05</b>	<b>1.</b>	<b>0.</b>	<b>MINIMUM</b>
<b>HIGH</b>	0469	<b>L.024</b>	<b>L.055</b>	<b>.016</b>	<b>.019</b>	<b>5.2</b>	<b>.07</b>	<b>2.</b>	<b>1.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.0034*</b>	<b>.007*</b>	<b>4.5</b>	<b>.05*</b>	<b>1.*</b>	<b>1.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>.0036*</b>	<b>.005*</b>	<b>.9</b>	<b>.00*</b>	<b>0.*</b>	<b>0.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				<b>L.001</b>	<b>L.001</b>		<b>L.05</b>	<b>L1.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				<b>L.001</b>	<b>.004</b>		<b>L.05</b>	<b>L1.</b>	<b>L1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				<b>.002</b>	<b>L.005</b>	<b>4.5</b>	<b>L.05</b>	<b>1.</b>	<b>L1.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				<b>L.005</b>	<b>.009</b>		<b>L.05</b>	<b>1.</b>	<b>L1.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>				<b>.005</b>	<b>.015</b>		<b>.05</b>	<b>2.</b>		<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 00SA07LC0001 LAT. 59 D 9 M 0 S LONG. 105 D 32 M 30 S

UTM 13 469000 6556000  
MAY 27 1969 TO-A OCT 03 1979FOND DU LAC RIVER AT OUTLET OF BLACK  
LAKE SASKATCHEWAN

SUBM ID	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	ALKALINITY TOTAL CACO3 MG/L	SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0003	31(0)	31(6)	22(0)	30(8)	31(0)	29(0)	31(6)	ECHANTILLONS(IND.)
LOW	0001	26.	Q12.	8.8	L5.	6.2	8.3	-3.7	MINIMUM
HIGH	0060	94.	28.	22.9	20.	8.1	17.0	-1.7	MAXIMUM
AVERAGE		40.	18.*	14.3	7.*		10.1		MOYENNE
STD.DEV.		13.	3.*	2.9	3.*		1.8		ECART-TYPE
PERCNT:10TH		29.	Q15.	12.0	L5.	6.7	8.5	Q-3.1	10 <sup>e</sup> PERCNT
25TH		33.	16.	12.4	L5.	6.9	9.2	-3.0	25 <sup>e</sup>
MEDIAN 50TH		37.	17.	14.0	5.	7.0	9.6	Q-2.8	50 <sup>e</sup> MEDIANE
75TH		42.	19.	14.9	10.	7.2	10.7	Q-2.7	75 <sup>e</sup>
90TH		51.	21.	16.2	10.	7.3	13.	-2.5	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

SUBM ID	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0060	31(0)	31(0)	31(0)	9(0)	24(0)	24(0)	31(0)	ECHANTILLONS(IND.)
LOW	0001	.3	1.1	2.4	.1	0.	10.	.5	L1.0 MINIMUM
HIGH	0003	1.4	3.6	7.1	2.1	0.	21.	5.9	2.4 MAXIMUM
AVERAGE		.7	1.6	3.91	1.1	0.	13.	3.2	1.5 <sup>e</sup> MOYENNE
STD.DEV.		.2	.5	1.07	.5	0.	2.	1.4	.5 <sup>e</sup> ECART-TYPE
PERCNT:10TH		.5	1.3	2.9		0.	11.	1.5	L1.0 10 <sup>e</sup> PERCNT
25TH		.6	1.3	3.1	1.0	0.	11.	2.3	L1.0 25 <sup>e</sup>
MEDIAN 50TH		.7	1.5	3.7	1.0	0.	12.	3.1	1.3 50 <sup>e</sup> MEDIANE
75TH		.7	1.8	4.5	1.1	0.	13.	4.1	2.1 75 <sup>e</sup>
90TH		.9	1.9	5.1		0.	16.	5.0	2.3 90 <sup>e</sup>
SECONDARY CODE									03L 06L 04L CODE DE SECOURS

SUBM ID	07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO P04 P MG/L	15363L PHOSPHORUS DISSOLVED INORG P04 P MG/L	
SAMPLES(FLAGS)	0001	15(5)	19(4)	6(5)	4(0)	4(0)	4(3)	7(6)	ECHANTILLONS(IND.)
LOW	0003	L.1	L.01	L.1	.12	.04	L.003	L.002	L.001 MINIMUM
HIGH	0060	1.1	.16	.1	.15	.12	.003	.015	.016 MAXIMUM
AVERAGE		.4*	.036*	.1*	.13	.075	.003*	.004*	.005* MOYENNE
STD.DEV.		.3*	.040*	.0*	.02	.037	.000*	.005*	.006* ECART-TYPE
PERCNT:10TH		L.1	L.01						10 <sup>e</sup> PERCNT
25TH		.1	.01	L.1	.12	.045	L.003	L.002	L.001 25 <sup>e</sup>
MEDIAN 50TH		.3	.020	L.1	.13	.070	L.003	L.002	.004 50 <sup>e</sup> MEDIANE
75TH		L.5	.050	L.1	.15	.105	.003*	L.002	.010 75 <sup>e</sup>
90TH		.6	.100						90 <sup>e</sup>
SECONDARY CODE									01L 52L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00SA07LC0001** LAT. **59 D 9 M 0 S** LONG. **105 D 32 M 30 S**

UTM **13 469000E 6556000N**  
MAY 27, 1969 TO/A OCT 03, 1979

FOND DU LAC RIVER AT OUTLET OF BLACK  
LAKE, SASKATCHEWAN

		15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	
	SUBM ID	P MG/L	SiO2 MG/L	C MG/L	O2 MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>	0001	20(1)	31(0)	20(0)	5(0)	11(2)	13(13)	4(4)	18(17)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0060	.004	.7	2.0	9.7	L.02	L.06	L.001	L.010	<b>MINIMUM</b>
<b>HIGH</b>	0003	.04	6.9	7.	11.7	.08	L.10	L.001	.026	<b>MAXIMUM</b>
<b>AVERAGE</b>		.010*	4.4	4.5	10.9	.04*			.013*	<b>MOYENNE</b>
<b>STD.DEV.</b>		.008*	1.1	1.3	.8	.02*			.004*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.005*	3.4	3.0		L.02	L.10		L.01	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.007	3.9	4.0	10.7	.02	L.10	L.0010	L.010	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.009	4.4	4.0	11.0	.03	L.10	L.0010	L.012	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.010	4.9	5.0	11.6	.05	L.10	L.0010	L.015	<b>75<sup>e</sup></b>
<b>90TH</b>		.014	5.3	6.5		.06	L.10		L.015	<b>90<sup>e</sup></b>
SECONDARY CODE		13L	05L							CODE DE SECOURS

		25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
	SUBM ID	MN MG/L	FE MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	
<b>SAMPLES(FLAGS)</b>	0001	25(13)	7(1)	22(9)	22(17)	18(12)	25(16)	25(7)	7(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0060	L.01	L.001	L.04	L.001	L.001	L.001	L.001	L.0005	<b>MINIMUM</b>
<b>HIGH</b>	0003	.05	.030	.26	.006	.012	.030	.054	L.005	<b>MAXIMUM</b>
<b>AVERAGE</b>		.01*	.013*	.08*	.002*	.004*	.004*	.010*		<b>MOYENNE</b>
<b>STD.DEV.</b>		.01*	.009*	.07*	.001*	.003*	.007*	.014*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		L.01		L.04	L.001	L.001	L.001	L.001		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.01	.010	L.05	L.001	L.001	L.001	.002	L.0005	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.01	.010	.05	L.002	L.002	L.001	.003	L.0005	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.01	.020	.10	L.002	L.005	.006	L.01	L.005	<b>75<sup>e</sup></b>
<b>90TH</b>		.02		.17	.002	.011	.011	.029		<b>90<sup>e</sup></b>
SECONDARY CODE		04L					06L	04L 04P	04L	CODE DE SECOURS

		34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	82302P LEAD EXTRBL.	
	SUBM ID	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	BA MG/L	HG UG/L	PB MG/L	
<b>SAMPLES(FLAGS)</b>	0001	5(5)	12(3)	12(12)	7(7)	22(16)	21(20)	9(8)	25(23)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0060	L.0005	L.01	L.05	L.01	L.001	L.0	L.02	L.001	<b>MINIMUM</b>
<b>HIGH</b>	0003	L.0005	.12	L.10	L.01	.004	L.1	L.05	L.05	<b>MAXIMUM</b>
<b>AVERAGE</b>			.04*			.001*	.1*	.04*	.006*	<b>MOYENNE</b>
<b>STD.DEV.</b>			.03*			.001*	.0*	.02*	.010*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			.01	L.05		L.001	L.0		L.001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.0005	L.02	L.05	L.01	L.001	L.0	.02	L.004	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.0005	.03	L.10	L.01	L.001	L.0	L.05	L.004	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		L.0005	.05	L.10	L.01	.001	L.1	L.05	L.005	<b>75<sup>e</sup></b>
<b>90TH</b>			.06	L.10		.002	L.1		L.01	<b>90<sup>e</sup></b>
SECONDARY CODE								13P	03P 01L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00SA07LC0001 LAT. 59 D 9 M 0 S LONG. 105 D 32 M 30 S

UTM 13 469000 6556000  
AUG 11 1972 TO A AUG 11 1972FOND DU LAC RIVER AT OUTLET OF BLACK  
LAKE SASKATCHEWAN

	18050L ALDRIN	18050L GAMMA BHC (LINDANE)	18050L DICAMBA	18150L HEOD (DIELDRIN)	18555L DICHLORPROP	18000L P.P.DDT	18110L P.P.TDE	18120L P.P.DDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0060	1(1)	1(1)		1(1)	1(1)	1(1)	1(1)	1(1)	ECHANTILLONS(IND.)
LOW	L.001	L.001		L.002	L.002	L.004	L.002	L.001	MINIMUM
HIGH	L.001	L.001		L.002	L.002	L.004	L.002	L.001	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	18030L P.P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18160L AROCOR 1254 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0060	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	2(2)	ECHANTILLONS(IND.)
LOW 0003	L.001	L.003	L.001	L.002	L.012	L.004	L.001	L.032	MINIMUM
HIGH	L.001	L.003	L.001	L.002	L.012	L.004	L.001	L.032	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH								L.032	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18161L AROCOR 1248 (PCB'S)	18162L AROCOR 1260 (PCB'S)	06711L CHLORO- PHYLL A	06713L CHLORO- PHYLL C	08401L OXYGEN CONSUMED	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
SUBM ID	UG/L	UG/L	MG/L	MG/L	O2 MG/L	F MG/L	ML	MG/L	
SAMPLES(FLAGS) 0060	2(2)	2(2)	4(1)		2(0)	29(14)	5(2)		ECHANTILLONS(IND.)
LOW 0003	L.024	L.055	L.001		2.6	.03	L.1		MINIMUM
HIGH 0001	L.024	L.055	.012		2.9	.10	8.		MAXIMUM
AVERAGE			.0063*		2.7	.06*	3.		MOYENNE
STD.DEV.			.0051*		.2	.02*	3.		ECART-TYPE
PERCNT:10TH						L.05			10 <sup>e</sup> PERCNT
25TH						L.05	L.1		25 <sup>e</sup>
MEDIAN 50TH	L.024	L.055	.0060		2.7	.05	2.		50 <sup>e</sup> MEDIANE
75TH			0105			.06	3		75 <sup>e</sup>
90TH						L.10			90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION 00SA07LD0001 LAT. 59 D 46 M 0 S LONG. 105 D 47 M 30 S

UTM 13 456000E 6625000 N  
AUG 11, 1972 TO/A JUN 13, 1973CREE RIVER AT OUTLET OF WAPATA LAKE,  
SASKATCHEWAN

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0060	4(0)	4(0)	4(0)	4(1)	4(0)	4(0)	4(0)		ECHANTILLONS(IND.)
LOW		44.	21.	14.2	1.5	1.1	6.9	8.5		MINIMUM
HIGH		50.	26.	17.8	5.	2.1	7.2	10.0		MAXIMUM
AVERAGE		47.	23.	15.6	5.*	1.7		9.0		MOYENNE
STD.DEV.		3.	2.	1.6	0.*	.5		.7		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		45.	22.	14.5	5.*	1.3	6.9	8.6		25 <sup>e</sup>
MEDIAN 50TH		48.	22.	15.2	5.	1.8	7.0	8.7		50 <sup>e</sup> MEDIANE
75TH		49.	24.	16.6	5.	2.1	7.1	9.4		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0060	4(0)	4(0)	4(0)		4(0)	4(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW		.7	1.8	3.9		0.	10.	6.3	1.7	MINIMUM
HIGH		1.1	2.5	4.4		0.	12.	7.5	2.9	MAXIMUM
AVERAGE		.9	2.1	4.17		0.	11.	6.7	2.3	MOYENNE
STD.DEV.		.2	.3	.22		0.	1.	.5	.6	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.8	1.8	4.00		0.	10.	6.4	1.8	25 <sup>e</sup>
MEDIAN 50TH		.9	2.0	4.20		0.	11.	6.6	2.3	50 <sup>e</sup> MEDIANE
75TH		1.0	2.3	4.35		0.	11.	7.0	2.8	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE									04L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	
SAMPLES(FLAGS)	0060	1(0)	3(1)					3(2)	3(2)	ECHANTILLONS(IND.)
LOW		.5	L.001					L.002	L.001	MINIMUM
HIGH		.5	.030					.006	.006	MAXIMUM
AVERAGE			.014*					.003*	.003*	MOYENNE
STD.DEV.			.015*					.002*	.003*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH			.010					L.002	L.001	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00SA07LD0001 LAT 59 D 46 M 0 S LONG. 105 D 47 M 30 S

UTM 13 456000 E 6625000 N  
AUG 11 1972 TO/A OCT 14 1973CREE RIVER AT OUTLET OF WAPATA LAKE  
SASKATCHEWAN

	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	
SUBM ID	P MG L	SiO2 MG L	C MG L	O2 MG L	B MG L	AL MG L	V MG L	CR MG L	
SAMPLES(FLAGS)	0060 1(0)	4(0)	3(0)		4(0)	5(5)		5(5)	ECHANTILLONS(IND.)
LOW	0001 .014	4.7	3.0		.04	L.10		L.010	MINIMUM
HIGH	.014	8.4	4.0		.09	L.10		L.010	MAXIMUM
AVERAGE		6.1	3.7		.07				MOYENNE
STD.DEV.		1.6	.6		.02				ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH		5.0			.05	L.10		L.010	25 <sup>e</sup>
MEDIAN 50TH		5.7	4.0		.07	L.10		L.010	50 <sup>e</sup> MEDIANE
75TH		7.2			.08	L.10		L.010	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	13L				04L				CODE DE SECOURS

	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	
SUBM ID	MN MG L	FE MG L	FE MG L	CO MG L	NI MG L	CU MG L	ZN MG L	AS MG L	
SAMPLES(FLAGS)	0001 5(0)		5(0)	5(2)	5(3)	5(4)	5(1)	2(1)	ECHANTILLONS(IND.)
LOW	0060 .02		.08	L.001	L.001	L.001	L.001	L.005	MINIMUM
HIGH	.03		.18	.003	.004	.002	.022	.007	MAXIMUM
AVERAGE	.02		.11	.002*	.002*	.001*	.006*	.0060*	MOYENNE
STD.DEV.	.00		.04	.001*	.001*	.000*	.009*	.0014*	ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH	.02		.10	L.001	L.001	L.001	.002		25 <sup>e</sup>
MEDIAN 50TH	.02		.10	.002	L.001	L.001	.003	.0060*	50 <sup>e</sup> MEDIANE
75TH	.02		.11	.002	.002	L.001	.004		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L			02L	02L				CODE DE SECOURS

	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	82302P LEAD EXTRBLE.	
SUBM ID	SE MG L	SR MG L	MO MG L	AG MG L	CD MG L	BA MG L	HG UG/L	PB MG L	
SAMPLES(FLAGS)	0060	5(1)	1(1)	5(5)	5(4)	4(4)	5(3)	5(4)	ECHANTILLONS(IND.)
LOW	0001	L.02	L.05	L.01	L.001	L.1	L.05	L.001	MINIMUM
HIGH		.18	L.05	L.01	.001	L.1	.09	L.05	MAXIMUM
AVERAGE		.09*			.001*		.06*	.011*	MOYENNE
STD.DEV.		.06*			.000*		.02*	.022*	ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH		.07		L.01	L.001	L.1	L.05	L.001	25 <sup>e</sup>
MEDIAN 50TH		.07		L.01	L.001	L.1	L.05	L.001	50 <sup>e</sup> MEDIANE
75TH		.10		L.01	L.001	L.1	.07	.003	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L			03P	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00SA07LD0001** LAT. **59 D 46 M 0 S** LONG. **105 D 47 M 30 S**

UTM **13 456000E 6625000 N**  
AUG 11, 1972 TO/À AUG 11, 1972

CREE RIVER AT OUTLET OF WAPATA LAKE,  
SASKATCHEWAN

		18130L ALDRIN	18070L GAMMA- BHC (LINDANE)	18530L DICAMBA	18150L HEOD (DIELDRIN)	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0060	1(1)	1(1)		1(1)	1(1)	1(1)	1(1)	1(1)	ECHANTILLONS(IND.)
LOW		L.001	L.001		L.002	L.002	L.004	L.002	L.001	MINIMUM
HIGH		L.001	L.001		L.002	L.002	L.004	L.002	L.001	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH										50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18160L AROCLO 1254 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0060	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	ECHANTILLONS(IND.)
LOW	0001	L.001	L.003	L.001	L.002	L.012	L.004	L.001	L.032	MINIMUM
HIGH		L.001	L.003	L.001	L.002	L.012	L.004	L.001	L.032	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH										50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		18161L AROCLO 1248 (PCB'S)	18162L AROCLO 1260 (PCB'S)	06711L CHLORO- PHYLL A	06713L CHLORO- PHYLL C	08401L OXYGEN CONSUMED	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	UG/L	UG/L	MG/L	MG/L	O2 MG/L	F MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	1(1)	1(1)				4(3)			ECHANTILLONS(IND.)
LOW	0060	L.024	L.055				L.05			MINIMUM
HIGH		L.024	L.055				.06			MAXIMUM
AVERAGE							.05*			MOYENNE
STD.DEV.							.01*			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH							L.05			25 <sup>e</sup>
MEDIAN 50TH							L.05			50 <sup>e</sup> MEDIANE
75TH							.05*			75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 00SA07MA0001 LAT 58 D 19 M 21 S LONG. 109 D 47 M 9 S

UTM 12 571100E 6465000N  
AUG 13 1975 TO: A OCT 02 1979DOUGLAS RIVER APPROX. 16.1KM. BELOW  
CLUFF CREEK SASKATCHEWAN

		02041L SPECIFIC CONDUCT.	02093L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE CM								
SAMPLES(FLAGS)	0469	16(0)	12(0)		15(2)	15(0)	15(0)	14(0)	12(0)	ECHANTILLONS(IND.)
LOW	0001	116.	57.		L5.	.5	7.1	29.	-1.8	MINIMUM
HIGH		297.	139.		30.	3.4	8.3	113.	.4	MAXIMUM
AVERAGE		181.	86.		19.*	1.4		46.5		MOYENNE
STD.DEV.		50.	26.		9.*	.8		28.2		ECART-TYPE
PERCNT:10TH		143.	62.		L5.	.6	7.4	32.	-1.5	10 <sup>e</sup> PERCNT
25TH		156.	72.		15.	.7	7.5	33.3	-1.3	25 <sup>e</sup>
MEDIAN 50TH		167.	79.		20.	1.3	7.5	34.9	-1.2	50 <sup>e</sup> MEDIANE
75TH		191.	91.		30.	2.0	7.8	42.	-1.0	75 <sup>e</sup>
90TH		293.	136.		30.	2.5	8.1	112.	.1	90 <sup>e</sup>
SECONDARY CODE								06L		CODE DE SECONDE

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0469	16(0)	16(0)	16(0)	16(0)	13(0)	13(0)	14(0)	16(0)	ECHANTILLONS(IND.)
LOW	0001	.7	2.6	11.0	6.2	0.	35.	17.	1.	MINIMUM
HIGH		2.4	4.8	32.3	17.6	0.	138.	33.	14.	MAXIMUM
AVERAGE		1.0	3.5	16.47	8.7	0.	58.	24.7	2.7	MOYENNE
STD.DEV.		.4	.6	5.79	3.2	0.	36.	5.9	3.2	ECART-TYPE
PERCNT:10TH		.7	2.8	11.7	6.7	0.	39.	17.	1.4	10 <sup>e</sup> PERCNT
25TH		.8	3.0	14.05	7.2	0.	41.	19.	1.5	25 <sup>e</sup>
MEDIAN 50TH		1.0	3.3	14.80	7.8	0.	42.	24.5	1.8	50 <sup>e</sup> MEDIANE
75TH		1.0	4.1	16.05	8.4	0.	51.	31.0	2.0	75 <sup>e</sup>
90TH		1.1	4.3	29.2	15.7	0.	137.	33.	5.5	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECONDE

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	08101P OXYGEN DISSOLVED DO MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0469	8(1)	10(2)	6(0)	6(0)	6(3)	16(1)	16(0)	16(0)	ECHANTILLONS(IND.)
LOW	0001	L.1	L.01	.13	.03	L.003	L.003	5.9	8.5	MINIMUM
HIGH		1.0	.080	.19	.07	.004	.030	14.2	11.3	MAXIMUM
AVERAGE		.3*	.025*	.17	.050	.003*	.009*	9.4	10.0	MOYENNE
STD.DEV.		.3*	.024*	.02	.015	.000*	.007*	2.2	1.0	ECART-TYPE
PERCNT:10TH			L.010				.003	7.3	8.7	10 <sup>e</sup> PERCNT
25TH		.2	.01	.15	.04	L.003	.005	7.8	9.0	25 <sup>e</sup>
MEDIAN 50TH		.3	.010	.18	.050	.003*	.007	8.7	10.0	50 <sup>e</sup> MEDIANE
75TH		.3	.04	.18	.06	.003	.010	10.1	11.0	75 <sup>e</sup>
90TH			.065				.024	13.	11.2	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECONDE

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00SA07MA0001** LAT. **58 D 19 M 21 S** LONG. **109 D 47 M 9 S**

UTM **12 571100E 6465000 N**  
AUG 13, 1975 TO/A OCT 02, 1979

DOUGLAS RIVER APPROX. 16.1KM. BELOW  
CLUFF CREEK SASKATCHEWAN

		06001L CARBON TOTAL ORGANIC	06711L CHLORO- PHYLL A	06713L CHLORO- PHYLL C	09105L FLUORIDE DISSOLVED	05105L BORON DISSOLVED	23302P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	
	SUBM ID	C MG/L	MG/L	MG/L	F MG/L	B MG/L	V MG/L	CR MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0469</b>	<b>10(0)</b>	<b>14(7)</b>	<b>8(3)</b>	<b>15(13)</b>	<b>6(0)</b>	<b>4(3)</b>	<b>14(14)</b>	<b>14(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0001</b>	<b>3.</b>	<b>L.001</b>	<b>L.001</b>	<b>L.05</b>	<b>.06</b>	<b>L.001</b>	<b>L.015</b>	<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>9.</b>	<b>.008</b>	<b>.008</b>	<b>.06</b>	<b>.08</b>	<b>.002</b>	<b>L.015</b>	<b>.04</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>6.3</b>	<b>.0029*</b>	<b>.004*</b>	<b>.05*</b>	<b>.08</b>	<b>.0012*</b>		<b>.02*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>1.9</b>	<b>.0022*</b>	<b>.002*</b>	<b>.00*</b>	<b>.01</b>	<b>.0005*</b>		<b>.01*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>3.5</b>	<b>L.001</b>		<b>L.05</b>			<b>L.015</b>	<b>L.01</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>5.</b>	<b>L.001</b>	<b>.003</b>	<b>L.05</b>	<b>.07</b>	<b>L.0010</b>	<b>L.015</b>	<b>.01</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>6.5</b>	<b>.0025</b>	<b>L.005</b>	<b>L.05</b>	<b>.08</b>	<b>L.0010</b>	<b>L.015</b>	<b>.01</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>8.</b>	<b>L.005</b>	<b>.005</b>	<b>L.05</b>	<b>.08</b>	<b>.0015*</b>	<b>L.015</b>	<b>.02</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>8.5</b>	<b>L.005</b>		<b>.05</b>			<b>L.015</b>	<b>.03</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	48302P CADMIUM EXTRBLE.	
	SUBM ID	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	CD MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0001</b>	<b>14(0)</b>	<b>14(10)</b>	<b>13(7)</b>	<b>14(8)</b>	<b>14(6)</b>	<b>10(9)</b>	<b>10(10)</b>	<b>14(11)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0469</b>	<b>.05</b>	<b>L.002</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.54</b>	<b>.019</b>	<b>.031</b>	<b>.012</b>	<b>.011</b>	<b>.0005</b>	<b>L.0005</b>	<b>.006</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.32</b>	<b>.003*</b>	<b>.005*</b>	<b>.003*</b>	<b>.003*</b>	<b>.0005*</b>		<b>.001*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.15</b>	<b>.005*</b>	<b>.008*</b>	<b>.004*</b>	<b>.003*</b>	<b>.0000*</b>		<b>.001*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.08</b>	<b>L.002</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.001</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.20</b>	<b>L.002</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.33</b>	<b>L.002</b>	<b>L.002</b>	<b>L.001</b>	<b>.002</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.43</b>	<b>.002</b>	<b>.005</b>	<b>.002</b>	<b>.004</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.001</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.50</b>	<b>.005</b>	<b>.005</b>	<b>.010</b>	<b>.006</b>	<b>.0005*</b>	<b>L.0005</b>	<b>.001</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	82302P LEAD EXTRBLE.	82501P LEAD RADIATION	86501P RADIUM RADIATION TOTAL	92111P URANIUM DISSOLVED	98005L ALPHA RADIATION TOTAL	98010P BETA RADIATION TOTAL	
	SUBM ID	BA MG/L	HG UG/L	PB MG/L	PB-210 BQ/L	RA-226 BQ/L	U UG/L	PCI/L	PCI/L	
<b>SAMPLES(FLAGS)</b>	<b>0469</b>	<b>14(13)</b>	<b>5(3)</b>	<b>14(10)</b>	<b>4(0)</b>	<b>4(1)</b>	<b>6(0)</b>	<b>4(0)</b>	<b>7(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0001</b>	<b>L.0</b>	<b>L.05</b>	<b>L.004</b>	<b>.0074</b>	<b>.0074</b>	<b>.1</b>	<b>.01</b>	<b>.04</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.1</b>	<b>.08</b>	<b>.007</b>	<b>.0163</b>	<b>.0148</b>	<b>.24</b>	<b>.10</b>	<b>.14</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.0*</b>	<b>.06*</b>	<b>.004*</b>	<b>.0114</b>	<b>.0105*</b>	<b>.17</b>	<b>.05</b>	<b>.07</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.0*</b>	<b>.01*</b>	<b>.001*</b>	<b>.0045</b>	<b>.0031*</b>	<b>.06</b>	<b>.04</b>	<b>.03</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.0</b>		<b>L.004</b>						<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.0</b>	<b>L.05</b>	<b>L.004</b>	<b>.0076</b>	<b>.0083*</b>	<b>.11</b>	<b>.02</b>	<b>.06</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.0</b>	<b>L.05</b>	<b>L.004</b>	<b>.0110</b>	<b>.0098*</b>	<b>.16</b>	<b>.03</b>	<b>.07</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.0</b>	<b>.07</b>	<b>.004</b>	<b>.0152</b>	<b>.0126</b>	<b>.23</b>	<b>.07</b>	<b>.08</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>L.0</b>		<b>.005</b>						<b>90<sup>e</sup></b>
SECONDARY CODE								05P	10L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 00SA07MB0001 LAT. 58 D 57M

LONG. 108 D 10M

UTM 12 664000E 6538000N  
OCT 15 1969 TO/A OCT 03 1979MCFARLANE RIVER AT OUTLET OF DAVY  
LAKE SASKATCHEWAN

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH. UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH. UNIT	
	SUBM ID	USIE CM								
SAMPLES(FLAGS)	0001	29(0)	29(6)	19(0)	29(2)	29(0)	29(0)	27(0)	29(6)	ECHANTILLONS(IND.)
LOW	0080	21.	9.	6.5	15.	.2	6.1	3.5	-4.0	MINIMUM
HIGH		50.	25.	27.9	35.	30.	7.8	10.8	-2.2	MAXIMUM
AVERAGE		32.	14.*	11.7	12.*	2.7		5.6		MOYENNE
STD.DEV.		6.	4.*	4.9	8.*	5.4		1.9		ECART-TYPE
PERCNT:10TH		25.	11.	8.2	5.	.7	6.4	3.9	-3.9	10 <sup>e</sup> PERCNT
25TH		28.	Q12.	8.7	5.	.9	6.6	4.3	Q-3.6	25 <sup>e</sup>
MEDIAN 50TH		31.	13.	10.0	10.	1.4	6.8	5.	-3.5	50 <sup>e</sup> MEDIANE
75TH		34.	16.	12.5	15.	2.1	7.0	7.0	Q-3.1	75 <sup>e</sup>
90TH		42.	21.	18.1	30.	4.0	7.2	8.5	-3.0	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0001	29(0)	29(0)	19(0)	10(0)	22(1)	22(1)	29(0)	29(5)	ECHANTILLONS(IND.)
LOW	0080	.3	.5	2.2	.1	0.	5.	2.1	L0.	MINIMUM
HIGH		1.2	2.1	4.7	1.4	0.	13.	5.6	3.2	MAXIMUM
AVERAGE		.5	1.3	3.1	.8	0.*	8.*	3.7	1.5*	MOYENNE
STD.DEV.		.2	.4	.8	.4	0.*	2.*	1.0	.6*	ECART-TYPE
PERCNT:10TH		.3	1.0	2.3	.1	0.	5.	2.5	L1.0	10 <sup>e</sup> PERCNT
25TH		.4	1.1	2.6	.8	0.	6.	3.0	1.0	25 <sup>e</sup>
MEDIAN 50TH		.5	1.3	2.9	.9	0.	7.	3.5	1.2	50 <sup>e</sup> MEDIANE
75TH		.6	1.5	3.7	1.1	0.	9.	4.0	1.9	75 <sup>e</sup>
90TH		.7	1.9	4.5	1.3	0.	11.	5.5	2.4	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15314L PHOSPHORUS TOTAL INORG. PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0001	14(4)	22(8)	4(4)	7(5)	1(0)	9(5)	19(0)	29(0)	ECHANTILLONS(IND.)
LOW	0080	L.1	L.001	L.1	L.002	.007	L.001	.005	3.5	MINIMUM
HIGH		.8	.15	L.1	.004	.007	.008	.051	11.2	MAXIMUM
AVERAGE		.3*	.042*		.002*		.003*	.016	6.0	MOYENNE
STD.DEV.		.2*	.052*		.001*		.002*	.012	2.0	ECART-TYPE
PERCNT:10TH		L.1	L.001					.006	4.1	10 <sup>e</sup> PERCNT
25TH		.1	L.01	L.1	L.002		L.001	.009	4.9	25 <sup>e</sup>
MEDIAN 50TH		.3	.020	L.1	L.002		L.001	.012	5.3	50 <sup>e</sup> MEDIANE
75TH		L.5	.060	L.1	.003		.003	.019	6.5	75 <sup>e</sup>
90TH		.6	.14					.042	9.8	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **00SA07MB0001** LAT. **58 D 57M** LONG. **108 D 10M** UTM **12 664000E 6538000 N**  
OCT 15, 1969 TO/À OCT 03, 1979

MCFARLANE RIVER AT OUTLET OF DAVY  
LAKE, SASKATCHEWAN

	06001L CARBON TOTAL ORGANIC C	08101P OXYGEN DISSOLVED DO O2	08401L OXYGEN CONSUMED O2	06532P PHENOLIC MATERIAL MG/L	06711L CHLORO- PHYLL A MG/L	10711L NTA NITRILOTRI ACETIC AC. H3NTA MG/L	09105L FLUORIDE DISSOLVED F MG/L	05105L BORON DISSOLVED B MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001 20(0)	5(0)	2(0)		1(0)		22(20)	9(1)	ECHANTILLONS(IND.)
LOW	0060 1.5	9.2	3.9		.007		L.05	L.02	MINIMUM
HIGH	12.	11.6	4.2		.007		.10	.10	MAXIMUM
AVERAGE	5.3	10.3	4.0				.05*	.05*	MOYENNE
STD.DEV.	2.3	1.2	.2				.01*	.02*	ECART-TYPE
PERCNT:10TH	2.8						L.05		10 <sup>e</sup> PERCNT
25TH	4.0	9.5					L.05	.04	25 <sup>e</sup>
MEDIAN 50TH	5.0	9.6	4.0				L.05	.04	50 <sup>e</sup> MEDIANE
75TH	6.5	11.5					L.05	.05	75 <sup>e</sup>
90TH	7.0						L.05		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	03101L LITHIUM DISSOLVED LI	03301P LITHIUM EXTRBLE. LI	13302P ALUMINUM EXTRBLE. AL	23302P VANADIUM EXTRBLE. V	24052L CHROMIUM DISSOLVED CR	24302P CHROMIUM EXTRBLE. CR	25101L MANGANESE DISSOLVED MN	25304P MANGANESE EXTRBLE. MN	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0060		18(12)	5(4)		17(17)	4(4)	24(9)	ECHANTILLONS(IND.)
LOW	0001		.012	L.001		L.010	L.01	L.01	MINIMUM
HIGH			L.1	.001		L.015	L.010	.03	MAXIMUM
AVERAGE			.073*	.0010*				.01*	MOYENNE
STD.DEV.			.036*	.0000*				.00*	ECART-TYPE
PERCNT:10TH			.014			L.01		L.01	10 <sup>e</sup> PERCNT
25TH			.044	L.001		L.010	L.010	L.01	25 <sup>e</sup>
MEDIAN 50TH			L.100	L.001		L.015	L.010	.01	50 <sup>e</sup> MEDIANE
75TH			L.10	L.001		L.015	L.010	.01	75 <sup>e</sup>
90TH			L.1			L.015		.02	90 <sup>e</sup>
SECONDARY CODE			05P				04L	04L	CODE DE SECOURS

	26102L IRON DISSOLVED FE	26304P IRON EXTRBLE. FE	27302P COBALT EXTRBLE. CO	28101L NICKEL DISSOLVED NI	28302P NICKEL EXTRBLE. NI	29105L COPPER DISSOLVED CU	29305P COPPER EXTRBLE. CU	33103L ARSENIC DISSOLVED AS	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001 5(1)	22(1)	23(19)		17(12)	1(0)	23(13)	9(9)	ECHANTILLONS(IND.)
LOW	0060 L.001	L.04	L.001		L.001	.001	L.001	L.0005	MINIMUM
HIGH	.060	.57	.003		.008	.001	.013	L.005	MAXIMUM
AVERAGE	.026*	.250*	.002*		.003*		.002*		MOYENNE
STD.DEV.	.027*	.130*	.001*		.002*		.003*		ECART-TYPE
PERCNT:10TH		.12	L.001		L.001		L.001		10 <sup>e</sup> PERCNT
25TH	.010	.18	L.001		L.002		L.001	L.0005	25 <sup>e</sup>
MEDIAN 50TH	.010	.225	L.002		L.002		L.001	L.0005	50 <sup>e</sup> MEDIANE
75TH	.050	.30	L.002		L.005		.002	L.005	75 <sup>e</sup>
90TH		.39	.002		.005		.002		90 <sup>e</sup>
SECONDARY CODE						06L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79  
ATHABASCA RIVER SUB BASIN

STATION 00SA07MB0001 LAT 58 D 57M

LONG. 108 D 10M

UTM 12 664000E 6538000N  
OCT 15 1969 TO/A OCT 03 1979

MCFARLANE RIVER AT OUTLET OF DAVY  
LAKE SASKATCHEWAN

		30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	34102L SELENIUM DISSOLVED	38101L STRONTIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42101P MOLYBDENUM EXTRBL.	48101L CADMIUM DISSOLVED	48102P CADMIUM EXTRBL.	
	SUBM ID	ZN MG/L	ZN MG/L	SE MG/L	SR MG/L	SR MG/L	MO MG/L	CD MG/L	CD MG/L	
SAMPLES(FLAGS)	0001	1(1)	23(5)	5(5)	.	11(0)	11(11)		23(20)	ECHANTILLONS(IND.)
LOW	0060	L.01	L.001	L.0005		.02	L.05		L.001	MINIMUM
HIGH		L.01	.14	L.0005		.07	L.10		.003	MAXIMUM
AVERAGE			.013*			.04			.001*	MOYENNE
STD.DEV.			.031*			.01			.000*	ECART-TYPE
PERCNT:10TH			L.001			.03	L.05		L.001	10 <sup>e</sup> PERCNT
25TH			.001	L.0005		.03	L.05		L.001	25 <sup>e</sup>
MEDIAN 50TH			.002	L.0005		.04	L.10		L.001	50 <sup>e</sup> MEDIANE
75TH			.009	L.0005		.05	L.10		L.001	75 <sup>e</sup>
90TH			.046			.06	L.10		L.002	90 <sup>e</sup>
SECONDARY CODE		04L	04L							CODE DE SECOURS

		47301P SILVER EXTRBL.	51301P ANTIMONY EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81101L THALLIUM DISSOLVED	81301P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	
	SUBM ID	AG MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	TL MG/L	PB MG/L	PB MG/L	
SAMPLES(FLAGS)	0001	5(5)		22(21)	7(4)			1(1)	23(23)	ECHANTILLONS(IND.)
LOW	0060	L.01		L.0	L.02			L.001	L.001	MINIMUM
HIGH		L.01		.3	.14			L.001	L.01	MAXIMUM
AVERAGE				.1*	.06*					MOYENNE
STD.DEV.				.1*	.04*					ECART-TYPE
PERCNT:10TH				L.0					L.001	10 <sup>e</sup> PERCNT
25TH		L.01		L.0	.02				L.004	25 <sup>e</sup>
MEDIAN 50TH		L.01		L.0	L.05				L.004	50 <sup>e</sup> MEDIANE
75TH		L.01		L.1	.10				L.004	75 <sup>e</sup>
90TH				L.1					L.005	90 <sup>e</sup>
SECONDARY CODE					13P				01L	CODE DE SECOURS

		92101L URANIUM DISSOLVED	18160L AROCLOL 1254 (PCB'S)	18161L AROCLOL 1248 (PCB'S)	18162L AROCLOL 1260 (PCB'S)	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
	SUBM ID	U MG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001		1(1)	1(1)	1(1)	5(2)				ECHANTILLONS(IND.)
LOW			L.032	L.024	L.055	L.1				MINIMUM
HIGH			L.032	L.024	L.055	3.				MAXIMUM
AVERAGE						2.*				MOYENNE
STD.DEV.						1.*				ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH						L.1				25 <sup>e</sup>
MEDIAN 50TH						2.				50 <sup>e</sup> MEDIANE
75TH						3.				75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **01AT07CE0001** LAT. **56 D 26 M 32 S** LONG. **111 D 5 M 6 S**

UTM **12 494760 E 6255080 N**  
OCT 29, 1976 TO/A OCT 16, 1979

GREGOIRE LAKE AT WIER - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	33(0)	33(0)	33(0)	16(0)	31(0)	17(0)	33(0)		<b>ECHANTILLONS(IND.)</b>
LOW	81.	52.	48.9	15.	.2	7.4	44.0		MINIMUM
HIGH	168.	89.	83.0	35.	13.7	9.0	67.8		MAXIMUM
AVERAGE	119.	66.	61.0	28.	3.7		54.9		MOYENNE
STD.DEV.	20.	9.	8.8	6.	3.1		6.9		ECART-TYPE
PERCNT:10TH	95.	56.	52.2	15.	1.2	7.5	46.8		10 <sup>e</sup> PERCNT
25TH	108.	59.	55.1	25.	1.5	8.1	50.0		25 <sup>e</sup>
MEDIAN 50TH	111.	62.	57.6	28.	2.6	8.3	53.6		50 <sup>e</sup> MEDIANE
75TH	137.	72.	66.8	33.	5.3	8.6	59.0		75 <sup>e</sup>
90TH	145.	78.	72.6	35.	6.9	8.9	65.2		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
<b>SAMPLES(FLAGS)</b>	33(0)	33(0)	33(0)	33(0)	33(17)	33(17)	33(0)	33(0)	<b>ECHANTILLONS(IND.)</b>
LOW	.6	.8	13.5	3.7	0.	54.	.4	2.9	MINIMUM
HIGH	1.3	3.2	23.00	6.2	Q0.	Q82.	2.2	17.8	MAXIMUM
AVERAGE	.9	2.3	16.81	4.6	0.*	67.*	1.0	7.1	MOYENNE
STD.DEV.	.2	.5	2.47	.7	0.*	8.*	.4	2.8	ECART-TYPE
PERCNT:10TH	.7	2.0	14.30	3.8	0.	57.	.5	4.9	10 <sup>e</sup> PERCNT
25TH	.8	2.2	15.30	4.1	0.	Q61.	.7	5.5	25 <sup>e</sup>
MEDIAN 50TH	.9	2.3	15.5	4.5	Q0.	Q65.	1.0	6.4	50 <sup>e</sup> MEDIANE
75TH	1.0	2.5	18.5	5.1	Q0.	72.	1.1	8.0	75 <sup>e</sup>
90TH	1.2	3.0	20.00	5.5	Q0.	79.	1.3	9.4	90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
<b>SAMPLES(FLAGS)</b>	33(1)	33(8)	17(4)	32(4)		33(8)	33(0)		<b>ECHANTILLONS(IND.)</b>
LOW	.085	L.003	L.003	L.002		L.003	.015		MINIMUM
HIGH	2.08	.580	.012	.14		.033	.07		MAXIMUM
AVERAGE	.889*	.063*	.006*	.045*		.011*	.029		MOYENNE
STD.DEV.	.431*	.113*	.003*	.033*		.008*	.013		ECART-TYPE
PERCNT:10TH	.30	.006	L.003	L.01		.004	.018		10 <sup>e</sup> PERCNT
25TH	.72	L.01	.003	.023		.005	.02		25 <sup>e</sup>
MEDIAN 50TH	.82	.017	.006	.037		L.01	.025		50 <sup>e</sup> MEDIANE
75TH	1.02	.044	.007	.069		.010	.031		75 <sup>e</sup>
90TH	1.34	.210	.012	.09		.025	.050		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION 01AT07CE0001 LAT. 56 D 26 M 32 S LONG. 111 D 5 M 6 S

UTM 12 494760E 6255080 N  
OCT 29 1976 TO/A OCT 16 1979

GREGOIRE LAKE AT WIER - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	06101L CARBON DISSOLVED ORGANIC C	08102F OXYGEN DISSOLVED O2	08301L OXYGEN TOTAL COO O2	09105L FLUORIDE DISSOLVED F	16101L SULPHIDE DISSOLVED S	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	33(4)	33(0)	29(0)	33(0)	20(0)	33(0)	28(4)	20(19)	ECHANTILLONS(IND.)
LOW	L.02	4.	8.	4.	6.8	19.	.04	L.0	MINIMUM
HIGH	2.70	30.0	16.0	24.5	15.4	225.	.14	.1	MAXIMUM
AVERAGE	1.08*	14.2	11.4	13.5	9.9	60.	.08*	.0*	MOYENNE
STD.DEV.	.87*	4.6	2.4	4.0	2.5	49.	.03*	.0*	ECART-TYPE
PERCNT:10TH	L.02	8.5	9.	7.5	7.8	27.	L.05	L.0	10 <sup>e</sup> PERCNT
25TH	.10	13.0	9.5	12.5	8.1	28.	.07	L.0	25 <sup>e</sup>
MEDIAN 50TH	1.2	14.0	10.5	13.5	8.8	41.	.09	L.0	50 <sup>e</sup> MEDIANE
75TH	1.80	15.5	12.5	15.	11.7	62.	.10	L.0	75 <sup>e</sup>
90TH	2.2	17.0	15.0	17.0	13.6	115.	.12	L.0	90 <sup>e</sup>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN T&L	06581L HUMIC ACID EXTRBL. MG/L	93050L FULVIC ACID EXTRBL. MG/L	06711L CHLORO - PHYLL A MG/L	06603L CYANIDE CN MG/L	06532L PHENOLIC MATERIAL MG/L	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	33(0)	33(32)	17(1)	21(8)	9(7)	30(22)	30(4)	27(6)	ECHANTILLONS(IND.)
LOW	.3	L.0	L.0	L.001	L.001	L.001	L.1	L.02	MINIMUM
HIGH	3.2	1.0	9.	.031	L.01	.011	3.9	.47	MAXIMUM
AVERAGE	.71	1.0*	4.4*	.0066*	.004*	.002*	.7*	.11*	MOYENNE
STD.DEV.	.52	.0*	2.7*	.0095*	.004*	.002*	.7*	.10*	ECART-TYPE
PERCNT:10TH	.4	L.0	1.0	L.001		L.001	L.1	L.02	10 <sup>e</sup> PERCNT
25TH	.5	L.0	2.	L.001	L.001	L.001	.3	.02	25 <sup>e</sup>
MEDIAN 50TH	.6	L1.0	4.	.002	L.002	L.001	.6	.10	50 <sup>e</sup> MEDIANE
75TH	.7	L1.0	6.	.006	L.01	.001	.9	.15	75 <sup>e</sup>
90TH	.9	L.0	9.	.023		.003	1.2	.22	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBL. BE MG/L	05105L BORON DISSOLVED B MG/L	13301L ALUMINUM EXTRBL. AL MG/L	92500L TITANIUM TOTAL TI MG/L	23001L VANADIUM TOTAL V MG/L	23301L VANADIUM EXTRBL. V MG/L	24101L CHROMIUM HEXAVALENT CR MG/L	24302L CHROMIUM EXTRBL. CR MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	1(1)	21(2)	32(3)	5(5)	32(30)		32(29)		ECHANTILLONS(IND.)
LOW	L.001	L.01	L.01	L.01	L.001		L.003		MINIMUM
HIGH	L.001	.12	.39	L.05	.002		.005		MAXIMUM
AVERAGE	.06*	.07*	.07*		.001*		.003*		MOYENNE
STD.DEV.		.03*	.08*		.000*		.000*		ECART-TYPE
PERCNT:10TH		.01	.02		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.03	.03	L.01	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.06	.05	L.01	L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.08	.08	L.01	L.001		L.003		75 <sup>e</sup>
90TH		.10	.17		L.001		L.003		90 <sup>e</sup>
SECONDARY CODE	02L	06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **01AT07CE0001** LAT. **56 D 26 M 32 S** LONG. **111 D 5 M 6 S**

UTM **12 494760E 6255080 N**  
OCT 29, 1976 TO/A OCT 16, 1979

GREGOIRE LAKE AT WIER - AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	32(0)	32(0)	17(16)	32(25)	32(12)	32(4)	32(7)	32(28)	ECHANTILLONS(IND.)
LOW	.008	.10	L.000	L.000	L.001	L.001	L.0002	.0001	MINIMUM
HIGH	.146	.93	.009	.025	.014	.034	.007	.0011	MAXIMUM
AVERAGE	.053	.24	.002*	.002*	.003*	.009*	.0014*	.0003*	MOYENNE
STD.DEV.	.035	.17	.002*	.004*	.003*	.009*	.0016*	.0002*	ECART-TYPE
PERCNT:10TH	.012	.11	L.001	L.001	L.001	L.001	.0003	L.0002	10 <sup>e</sup> PERCNT
25TH	.028	.14	L.002	L.001	L.001	.002	L.0005	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.047	.17	L.002	.001*	.002	.007	.0009	L.0002	50 <sup>e</sup> MEDIANE
75TH	.073	.28	L.002	L.002	.003	.015	.0015	.0004*	75 <sup>e</sup>
90TH	.099	.51	L.002	.002	.005	.019	.0029	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
SAMPLES(FLAGS)			8(7)		21(21)			32(26)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		L.001			.0044	MAXIMUM
AVERAGE			.00*					.0003*	MOYENNE
STD.DEV.			.00*					.0008*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			.00*		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.00		L.001			L.0001	75 <sup>e</sup>
90TH					L.001			.0002	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	32(25)	32(0)	17(1)	17(1)	19(0)	32(2)	33(0)	32(0)	ECHANTILLONS(IND.)
LOW	L.002	1.	0.	0.	10.	L0.	53.	39.	MINIMUM
HIGH	.013	8.	200.	256.	9700.	21.	110.	81.	MAXIMUM
AVERAGE	.003*	3.	14.*	34.*	1454.	5.*	75.	54.	MOYENNE
STD.DEV.	.002*	2.	48.*	74.*	2518.	6.*	14.	10.	ECART-TYPE
PERCNT:10TH	L.002	2.	0.	0.	20.	0.	60.	41.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	0.	30.	1.	64.	47.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	0.	2.	200.	4.	72.	53.	50 <sup>e</sup> MEDIANE
75TH	L.002	4.	5.	17.	2000.	7.	82.	61.	75 <sup>e</sup>
90TH	.003	4.	17.	192.	6000.	13.	92.	66.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 01AT07DA0001 LAT. 57 D 30 M 33 S LONG. 112 D 31 M 0 S

UTM 12 409130E 6374860 N

JAN 05 1977 TO/A MAR 03 1978

UPPER GARDNER LAKE IN BIRCH MOUNTAINS  
WSC GAUGE ON WEST SHORE - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CACO3	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL CACO3	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	MG/L	PH UNITS	
SAMPLES(FLAGS)	13(0)	13(0)	13(0)	13(1)	13(0)	.	13(0)	1(0)	ECHANTILLONS(IND.)
LOW	34.	15.	13.2	L5.	1.1		14.4	-6	MINIMUM
HIGH	223.	126.	121.1	80.	5.3		122.0	-6	MAXIMUM
AVERAGE	126.	69.	63.4	32.*	2.6		60.3		MOYENNE
STD.DEV.	42.	24.	23.5	17.*	1.2		23.1		ECART-TYPE
PERCNT:10TH	104.	60.	54.3	25.	1.1		53.0		10 <sup>e</sup> PERCNT
25TH	110.	63.	57.2	25.	1.8		53.8		25 <sup>e</sup>
MEDIAN 50TH	125.	65.	59.3	30.	2.6		56.0		50 <sup>e</sup> MEDIANE
75TH	136.	70.	63.9	30.	3.2		61.2		75 <sup>e</sup>
90TH	159.	88.	81.7	40.	4.2		74.2		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K	11101L SODIUM DISSOLVED NA	20101L CALCIUM DISSOLVED CA	12102L MAGNESIUM DISSOLVED MG	06301L CARBONATE (CALCD.) CO3	06201L BICARBONT. (CALCD.) HCO3	17201L CHLORIDE DISSOLVED CL	16306L SULPHATE DISSOLVED SO4	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	13(0)	13(0)	13(0)	13(0)	13(0)	13(0)	13(0)	13(0)	ECHANTILLONS(IND.)
LOW	.2	.5	3.8	.9	0.	18.	.2	.5	MINIMUM
HIGH	2.0	4.0	32.0	10.0	0.	149.	2.1	9.3	MAXIMUM
AVERAGE	1.0	3.0	16.87	5.2	0.	73.	.6	5.8	MOYENNE
STD.DEV.	.4	.9	6.11	2.0	0.	28.	.5	2.1	ECART-TYPE
PERCNT:10TH	.7	2.5	14.5	4.4	0.	65.	.4	4.1	10 <sup>e</sup> PERCNT
25TH	.9	2.8	15.0	4.7	0.	66.	.4	5.0	25 <sup>e</sup>
MEDIAN 50TH	1.0	3.2	16.0	4.7	0.	68.	.5	6.2	50 <sup>e</sup> MEDIANE
75TH	1.0	3.3	17.0	5.2	0.	75.	.6	6.8	75 <sup>e</sup>
90TH	1.3	3.8	21.5	6.8	0.	90.	.8	7.8	90 <sup>e</sup>
SECONDARY CODE	02L 03L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)	13(0)	13(2)	4(1)	13(5)		13(2)	13(0)		ECHANTILLONS(IND.)
LOW	.58	L.003	L.003	L.01		.003	.02		MINIMUM
HIGH	1.70	.24	.014	.12		.18	.22		MAXIMUM
AVERAGE	1.028	.063*	.006*	.037*		.032*	.083		MOYENNE
STD.DEV.	.359	.068*	.006*	.037*		.047*	.062		ECART-TYPE
PERCNT:10TH	.64	.007		L.01		.008	.030		10 <sup>e</sup> PERCNT
25TH	.86	.01	.003*	L.01		L.01	.042		25 <sup>e</sup>
MEDIAN 50TH	.93	.058	.003	.02		.016	.05		50 <sup>e</sup> MEDIANE
75TH	1.15	.067	.009	.05		.03	.102		75 <sup>e</sup>
90TH	1.70	.14		.10		.06	.16		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **01AT07DA0001** LAT. **57 D 30 M 33 S** LONG. **112 D 31 M 0 S**

UTM **12 409130E 6374860 N**  
JAN 05, 1977 TO/A MAR 03, 1978

UPPER GARDNER LAKE IN BIRCH MOUNTAINS  
- WSC GAUGE ON WEST SHORE - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>2(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>1(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.5</b>	<b>2.</b>	<b>3.</b>	<b>2.</b>	<b>6.5</b>	<b>13.</b>	<b>.07</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>9.3</b>	<b>17.0</b>	<b>20.</b>	<b>16.</b>	<b>8.3</b>	<b>111.</b>	<b>.27</b>	<b>L.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>4.56</b>	<b>11.4</b>	<b>11.1</b>	<b>10.4</b>	<b>7.4</b>	<b>45.</b>	<b>.12</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>3.28</b>	<b>4.2</b>	<b>4.7</b>	<b>3.7</b>	<b>1.3</b>	<b>28.</b>	<b>.05</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.2</b>	<b>8.0</b>	<b>4.0</b>	<b>7.</b>		<b>19.</b>	<b>.09</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.90</b>	<b>9.0</b>	<b>9.5</b>	<b>8.5</b>		<b>30.</b>	<b>.10</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>3.3</b>	<b>12.0</b>	<b>11.</b>	<b>11.0</b>	<b>7.4</b>	<b>39.</b>	<b>.10</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>7.8</b>	<b>14.5</b>	<b>13.5</b>	<b>12.5</b>		<b>55.</b>	<b>.11</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>8.7</b>	<b>16.0</b>	<b>16.5</b>	<b>14.5</b>		<b>91.</b>	<b>.16</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHATS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>13(0)</b>	<b>13(12)</b>		<b>2(1)</b>	<b>2(2)</b>	<b>8(5)</b>	<b>9(3)</b>	<b>13(5)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.3</b>	<b>L.1.0</b>		<b>L.001</b>	<b>L.002</b>	<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>2.40</b>	<b>1.0</b>		<b>.001</b>	<b>L.01</b>	<b>.003</b>	<b>1.9</b>	<b>.17</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.83</b>	<b>1.0*</b>		<b>.0010*</b>		<b>.001*</b>	<b>.6*</b>	<b>.06*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.57</b>	<b>.0*</b>		<b>.0000*</b>		<b>.001*</b>	<b>.6*</b>	<b>.05*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.30</b>	<b>L.1.0</b>						<b>L.02</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.55</b>	<b>L.1.0</b>				<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.70</b>	<b>L.1.0</b>		<b>.0010*</b>	<b>L.006</b>	<b>L.001</b>	<b>.5</b>	<b>.04</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.80</b>	<b>L.1.0</b>				<b>.002</b>	<b>.5</b>	<b>.09</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.6</b>	<b>L.1.0</b>						<b>.15</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TI MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		<b>13(0)</b>	<b>13(4)</b>	<b>4(4)</b>	<b>13(12)</b>		<b>13(12)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.01</b>	<b>L.01</b>	<b>L.05</b>	<b>L.001</b>		<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.24</b>	<b>.59</b>	<b>L.05</b>	<b>.001</b>		<b>.94</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.09</b>	<b>.11*</b>		<b>.001*</b>		<b>.075*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.08</b>	<b>.17*</b>		<b>.000*</b>		<b>.260*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.03</b>	<b>L.01</b>		<b>L.001</b>		<b>L.003</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.04</b>	<b>L.01</b>	<b>L.050</b>	<b>L.001</b>		<b>L.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.05</b>	<b>.05</b>	<b>L.050</b>	<b>L.001</b>		<b>L.003</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.18</b>	<b>.09</b>	<b>L.050</b>	<b>L.001</b>		<b>L.003</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.19</b>	<b>.31</b>		<b>L.001</b>		<b>L.003</b>		<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 01AT07DA0001 LAT. 57 D 30 M 33 S LONG. 112 D 31 M 0 S

UTM 12 409130E 6374860 N  
JAN 05 1977 TO/A MAR 03 1978UPPER GARDNER LAKE IN BIRCH MOUNTAINS  
- WSC GAUGE ON WEST SHORE - AOSERP

	25304L MANGANESE EXTRBLE. MN MG/L	26304L IRON EXTRBLE. FE MG/L	27302L COBALT EXTRBLE. CO MG/L	28302L NICKEL EXTRBLE. NI MG/L	29301L COPPER EXTRBLE. CU MG/L	30305L ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	13(0)	13(0)	13(13)	13(11)	13(1)	13(1)	13(8)	13(10)	ECHANTILLONS(IND.)
LOW	.003	.15	L.002	L.002	L.001	L.001	L.0002	L.0002	MINIMUM
HIGH	.4	2.25	L.002	.007	.037	.133	.0022	.0009	MAXIMUM
AVERAGE	.076	.43		.003*	.008*	.019*	.0007*	.0004*	MOYENNE
STD.DEV.	.104	.57		.002*	.010*	.035*	.0006*	.0002*	ECART-TYPE
PERCNT:10TH	.01	.15	L.002	L.002	.001	.001	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.026	.18	L.002	L.002	.001	.005	.0003	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.044	.26	L.002	L.002	.004	.009	L.0005	L.0005	50 <sup>e</sup> MEDIANE
75TH	.075	.32	L.002	L.002	.009	.014	L.001	L.0005	75 <sup>e</sup>
90TH	.130	.77	L.002	.006	.013	.024	.0013	.0006	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80011L MERCURY TOTAL HG MG/L	
SAMPLES(FLAGS)			7(6)		13(11)			13(11)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.002			.0001	MAXIMUM
AVERAGE			.00*		.001*			.0001*	MOYENNE
STD.DEV.			.00*		.000*			.0000*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH					.002			.0001	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO/100ML	36001L COLIFORMS TOTAL MPN NO/100ML	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	13(10)	13(0)	3(2)	2(1)	3(0)	13(0)	13(0)	13(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	L2.	L2.	10.	1.	22.	19.	MINIMUM
HIGH	.006	8.	33.	33.	1100.	23.	150.	126.	MAXIMUM
AVERAGE	.003*	3.	12.*	17.*	630.	7.	80.	59.	MOYENNE
STD.DEV.	.002*	2.	18.*	22.*	560.	7.	29.	25.	ECART-TYPE
PERCNT:10TH	L.002	2.				2.	62.	40.	10 <sup>e</sup> PERCNT
25TH	L.002	2.				3.	72.	43.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	L2.	17.*	780.	4.	76.	58.	50 <sup>e</sup> MEDIANE
75TH	L.002	4.				8.	89.	68.	75 <sup>e</sup>
90TH	.006	4.				19.	105.	73.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **01AT07DA0002** LAT. **57 D 22 M 10 S** LONG. **112 D 45 M 30 S**UTM **12 394250 E 6359660 N**  
JAN 04, 1977 TO/A APR 10, 1978NAMUR LAKE AT BIRCH MOUNTAIN LODGE IN  
BIRCH MOUNTAINS AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>14(7)</b>	<b>14(1)</b>		<b>14(0)</b>	<b>1(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>43.</b>	<b>22.</b>	<b>16.2</b>	<b>L5.</b>	<b>L.1</b>		<b>15.8</b>	<b>-3.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>89.</b>	<b>44.</b>	<b>28.5</b>	<b>15.</b>	<b>6.8</b>		<b>34.0</b>	<b>-3.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>57.</b>	<b>30.</b>	<b>22.0</b>	<b>7.*</b>	<b>1.5*</b>		<b>21.4</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>14.</b>	<b>6.</b>	<b>3.5</b>	<b>3.*</b>	<b>1.8*</b>		<b>4.7</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>43.</b>	<b>25.</b>	<b>19.1</b>	<b>L5.</b>	<b>.1</b>		<b>18.0</b>	<b>10<sup>e</sup></b>	<b>PERCNT</b>
<b>25TH</b>	<b>47.</b>	<b>27.</b>	<b>19.5</b>	<b>L5.</b>	<b>.4</b>		<b>18.4</b>	<b>25<sup>e</sup></b>	
<b>MEDIAN 50TH</b>	<b>52.</b>	<b>28.</b>	<b>20.7</b>	<b>5.*</b>	<b>1.0</b>		<b>19.7</b>	<b>50<sup>e</sup></b>	<b>MEDIANE</b>
<b>75TH</b>	<b>66.</b>	<b>33.</b>	<b>25.3</b>	<b>10.</b>	<b>2.1</b>		<b>22.6</b>	<b>75<sup>e</sup></b>	
<b>90TH</b>	<b>73.</b>	<b>38.</b>	<b>26.1</b>	<b>10.</b>	<b>3.7</b>		<b>27.6</b>	<b>90<sup>e</sup></b>	
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.6</b>	<b>1.5</b>	<b>4.5</b>	<b>1.2</b>	<b>0.</b>	<b>19.</b>	<b>.2</b>	<b>4.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.4</b>	<b>7.5</b>	<b>7.8</b>	<b>2.2</b>	<b>0.</b>	<b>41.</b>	<b>1.5</b>	<b>7.1</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.0</b>	<b>2.5</b>	<b>5.78</b>	<b>1.8</b>	<b>0.</b>	<b>26.</b>	<b>.5</b>	<b>5.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.2</b>	<b>1.5</b>	<b>.94</b>	<b>.3</b>	<b>0.</b>	<b>6.</b>	<b>.3</b>	<b>1.0</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.7</b>	<b>1.8</b>	<b>5.0</b>	<b>1.6</b>	<b>0.</b>	<b>22.</b>	<b>.2</b>	<b>4.0</b>	<b>10<sup>e</sup></b>
<b>25TH</b>	<b>.8</b>	<b>1.9</b>	<b>5.0</b>	<b>1.7</b>	<b>0.</b>	<b>22.</b>	<b>.3</b>	<b>5.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.0</b>	<b>2.0</b>	<b>5.50</b>	<b>1.8</b>	<b>0.</b>	<b>24.</b>	<b>.4</b>	<b>5.5</b>	<b>50<sup>e</sup></b>
<b>75TH</b>	<b>1.1</b>	<b>2.5</b>	<b>6.5</b>	<b>2.2</b>	<b>0.</b>	<b>28.</b>	<b>.5</b>	<b>6.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.1</b>	<b>3.1</b>	<b>7.0</b>	<b>2.2</b>	<b>0.</b>	<b>34.</b>	<b>.8</b>	<b>6.8</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO P04 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>14(0)</b>	<b>14(4)</b>	<b>4(3)</b>	<b>14(2)</b>		<b>14(1)</b>	<b>14(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.39</b>	<b>L.003</b>	<b>L.003</b>	<b>L.01</b>		<b>L.003</b>	<b>.02</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>1.25</b>	<b>.074</b>	<b>.003</b>	<b>.15</b>		<b>.08</b>	<b>.10</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.749</b>	<b>.027*</b>	<b>.003*</b>	<b>.050*</b>		<b>.017*</b>	<b>.036</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.228</b>	<b>.021*</b>	<b>.000*</b>	<b>.046*</b>		<b>.019*</b>	<b>.022</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.50</b>	<b>L.01</b>		<b>L.01</b>		<b>.003</b>	<b>.021</b>		<b>10<sup>e</sup></b>
<b>25TH</b>	<b>.58</b>	<b>L.01</b>	<b>L.003</b>	<b>.02</b>		<b>.010</b>	<b>.022</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.745</b>	<b>.020</b>	<b>L.003</b>	<b>.035</b>		<b>.010</b>	<b>.025</b>		<b>50<sup>e</sup></b>
<b>75TH</b>	<b>.88</b>	<b>.04</b>	<b>.003*</b>	<b>.07</b>		<b>.020</b>	<b>.043</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.00</b>	<b>.051</b>		<b>.12</b>		<b>.02</b>	<b>.06</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 01AT07DA0002 LAT. 57 D 22M 10 S LONG. 112 D 45M 30 S

UTM 12 394250 6359660 N  
JAN 04 1977 TO/A APR 10 1978NAMUR LAKE AT BIRCH MOUNTAIN LODGE IN  
BIRCH MOUNTAINS AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08101L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	10101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	M M	O2 MG/L	F MG/L	M M	
SAMPLES(FLAGS)	14(0)	14(0)	14(0)	14(0)	3(0)	14(0)	14(2)	1(1)	ECHANTILLONS(IND.)
LOW	.21	5.	3.	4.5	3.4	8.	.03	L.0	MINIMUM
HIGH	1.1	15.5	8.0	14.	10.6	96.	.08	L.0	MAXIMUM
AVERAGE	.65	8.1	4.5	7.4	7.3	36.	.06*		MOYENNE
STD.DEV.	.28	3.2	1.3	2.4	3.6	23.	.02*		ECART-TYPE
PERCNT:10TH	.3	5.	3	5		16.	L.05		10 <sup>e</sup> PERCNT
25TH	.4	6.0	3.5	6.0		21.	.05		25 <sup>e</sup>
MEDIAN 50TH	.65	7.0	4.3	7.0	7.8	30.	.07		50 <sup>e</sup> MEDIANE
75TH	.9	9.	5.0	8.0		40.	.08		75 <sup>e</sup>
90TH	.9	14.	6.0	10.0		70.	.08		90 <sup>e</sup>
SECONDARY CODE									CODÉ DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO- PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT N-ALKYL SULPHNTS LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	14(1)	14(14)		2(0)	3(2)	8(5)	9(5)	14(5)	ECHANTILLONS(IND.)
LOW	L.10	L1.0		.002	.001	L.001	L.1	L.02	MINIMUM
HIGH	.60	L1.0		.002	L.01	.008	2.1	.12	MAXIMUM
AVERAGE	.39*			.0020	.004*	.002*	.5*	.05*	MOYENNE
STD.DEV.	.12*			.0000	.005*	.003*	.7*	.04*	ECART-TYPE
PERCNT:10TH	.3	L1.0						L.02	10 <sup>e</sup> PERCNT
25TH	.3	L1.0						L.02	25 <sup>e</sup>
MEDIAN 50TH	.40	L1.0		.0020	L.002	L.001	L.1	.05	50 <sup>e</sup> MEDIANE
75TH	.5	L1.0				.003	.6	.07	75 <sup>e</sup>
90TH	.50	L1.0						.12	90 <sup>e</sup>
SECONDARY CODE									CODÉ DE SECOURS

	04301L BERYLLIUM EXTRBLE.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBLE	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE	
SUBM ID	BE MG/L	B MG/L	AL MG/L	T MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		14(0)	14(3)	6(6)	14(13)		14(13)		ECHANTILLONS(IND.)
LOW		.01	L.01	L.01	L.001		L.003		MINIMUM
HIGH		.09	.83	L.05	.001		.004		MAXIMUM
AVERAGE		.04	.19*		.001*		.003*		MOYENNE
STD.DEV.		.03	.27*		.000*		.000*		ECART-TYPE
PERCNT:10TH		.02	L.01		L.001		L.003		10 <sup>e</sup> PERCNT
25TH		.02	.01	L.01	L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.04	.06	L.050	L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.06	.27	L.05	L.001		L.003		75 <sup>e</sup>
90TH		.09	.64		L.001		L.003		90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODÉ DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **01AT07DA0002** LAT. **57 D 22M 10 S** LONG. **112 D 45M 30 S**

UTM **12 394250 E 6359660 N**  
JAN 04, 1977 TO/A APR 10, 1978

NAMUR LAKE AT BIRCH MOUNTAIN LODGE IN  
BIRCH MOUNTAINS AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>14(14)</b>	<b>14(12)</b>	<b>14(1)</b>	<b>14(0)</b>	<b>14(11)</b>	<b>14(13)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	.001	.01	L.001	L.001	L.001	.003	L.0002	L.0002	MINIMUM
HIGH	.023	.97	L.002	.006	.036	.025	.003	L.0005	MAXIMUM
AVERAGE	.011	.24		.002*	.008*	.010	.0005*	.0003*	MOYENNE
STD.DEV.	.007	.26		.001*	.009*	.007	.0007*	.0002*	ECART-TYPE
PERCNT:10TH	.003	.02	L.002	L.002	.001	.003	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.004	.08	L.002	L.002	.002	.004	L.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.011	.16	L.002	L.002	.005	.009	.0003	.0002*	50 <sup>e</sup> MEDIANE
75TH	.015	.41	L.002	L.002	.012	.012	L.0005	L.0005	75 <sup>e</sup>
90TH	.019	.44	L.002	.003	.016	.021	L.001	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			<b>7(6)</b>		<b>14(12)</b>			<b>14(14)</b>	<b>ECHANTILLONS(IND.)</b>
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		.002			L.0001	MAXIMUM
AVERAGE			.00*		.001*				MOYENNE
STD.DEV.			.00*		.000*				ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH					.001			L.0001	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>14(11)</b>	<b>14(0)</b>	<b>2(2)</b>	<b>2(2)</b>	<b>2(0)</b>	<b>14(2)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	L.002	2.	L.2.	L.2.	20.	L0.	26.	16.	MINIMUM
HIGH	.006	8.	L.2.	L.2.	30.	16.	45.	33.	MAXIMUM
AVERAGE	.002*	3.			25.	3.*	33.	23.	MOYENNE
STD.DEV.	.001*	2.			7.	4.*	7.	5.	ECART-TYPE
PERCNT:10TH	L.002	2.				L0.	26.	18.	10 <sup>e</sup> PERCNT
25TH	L.002	2.				0.	28.	20.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	L.2.	L.2.	25.	2.	30.	22.	50 <sup>e</sup> MEDIANE
75TH	L.002	2.				4.	39.	26.	75 <sup>e</sup>
90TH	.003	4.				5.	45.	29.	90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 01AT07DA0003 LAT. 57 D 45 M 20 S LONG. 112 D 10 M 0 S

UTM 12 430580E 6401880 N  
JAN 05 1977 TO/A NOV 29 1978EAGLENEST LAKE IN BIRCH MOUNTAINS  
NEAR OUTLET AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.)	02011L COLOUR APPARENT	02073L TURBIDITY	10301F PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)
SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS
SAMPLES(FLAGS)	20(0)	19(0)	20(0)	16(0)	20(0)		20(0)	ECHANTILLONS(IND.)
LOW	90.	51.	45.6	25.	2.3		45.3	MINIMUM
HIGH	820.	346.	98.7	90.	453.0		441.6	MAXIMUM
AVERAGE	178.	91.	70.9	47.	46.2		88.5	MOYENNE
STD.DEV.	156.	65.	19.1	18.	126.4		85.0	ECART-TYPE
PERCNT:10TH	94.	52.	47.7	30.	2.5		46.9	10 <sup>e</sup> PERCNT
25TH	103.	57.	51.2	35.	3.0		53.2	25 <sup>e</sup>
MEDIAN 50TH	155.	77.	73.8	40.	4.9		73.6	50 <sup>e</sup> MEDIANE
75TH	182.	99.	88.9	53.	9.1		89.9	75 <sup>e</sup>
90TH	202.	106.	93.4	70.	194.5		94.0	90 <sup>e</sup>
SECONDARY CODE								CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17201L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L
SAMPLES(FLAGS)	20(0)	20(0)	20(0)	20(0)	20(4)	20(4)	19(0)	20(0)
LOW	.6	2.4	11.50	3.8	0.	Q55.	.2	2.5
HIGH	20.5	6.5	25.5	8.5	Q0.	Q538.	5.5	23.0
AVERAGE	1.9	4.1	18.27	6.1	0.*	108.*	1.2	6.7
STD.DEV.	4.4	1.4	5.07	1.6	0.*	104.*	1.4	4.4
PERCNT:10TH	.6	2.5	12.25	4.3	0.	57.	.3	3.7
25TH	.7	2.7	13.25	4.5	0.	65.	.4	4.5
MEDIAN 50TH	.9	4.3	18.40	6.0	0.	90.	.7	5.5
75TH	1.1	5.3	23.00	7.7	0.	110.	1.0	7.2
90TH	1.2	5.8	24.30	8.1	0.	115.	4.5	10.4
SECONDARY CODE	02L 03L	02L 03L	03L				03L	CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	PO4 MG/L
SAMPLES(FLAGS)	19(0)	20(4)	5(0)	19(0)		20(0)	20(0)	ECHANTILLONS(IND.)
LOW	.67	.005	.003	.01		.017	.062	MINIMUM
HIGH	6.55	.640	.030	3.850		3.900	8.200	MAXIMUM
AVERAGE	1.735	.176*	.009	.439		.248	.571	MOYENNE
STD.DEV.	1.340	.194*	.012	.859		.860	1.799	ECART-TYPE
PERCNT:10TH	.84	.009*		.03		.022	.098	10 <sup>e</sup> PERCNT
25TH	1.10	L.010	.004	.06		.030	.127	25 <sup>e</sup>
MEDIAN 50TH	1.35	.110	.005	.18		.050	.145	50 <sup>e</sup> MEDIANE
75TH	1.64	.294	.005	.45		.073	.195	75 <sup>e</sup>
90TH	3.68	.465		.90		.150	.412	90 <sup>e</sup>
SECONDARY CODE	15L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **01AT07DA0003** LAT. **57 D 45M 20 S** LONG. **112 D 10M 0 S**UTM **12 430580 E 6401880 N**  
JAN 05, 1977 TO/À NOV 29, 1978EAGLENEST LAKE IN BIRCH MOUNTAINS  
NEAR OUTLET AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	20(0)	20(0)	20(0)	20(0)	2(0)	19(0)	20(3)	5(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.02	8.	9.0	7.	7.7	28.	L.05	L.0	<b>MINIMUM</b>
<b>HIGH</b>	12.40	413.0	89.0	64.0	11.4	235.	.21	.3	<b>MAXIMUM</b>
<b>AVERAGE</b>	4.00	35.3	18.1	16.8	9.5	59.	.13*	.1*	<b>MOYENNE</b>
<b>STD.DEV.</b>	3.45	89.0	17.3	11.6	2.6	47.	.05*	.1*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.16	9.8	9.8	9.8		29.	L.05		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	1.31	13.0	10.3	12.5		38.	.10	L.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	3.45	15.5	13.8	14.8	9.5	43.	.13	L.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	6.15	19.3	17.3	17.0		61.	.17	L.0	<b>75<sup>e</sup></b>
<b>90TH</b>	8.70	21.0	23.0	19.8		110.	.19		<b>90<sup>e</sup></b>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	20(0)	20(15)	4(0)	5(3)	4(4)	8(5)	9(2)	20(5)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.30	L.1.0	5.	L.001	L.001	L.001	L.1	L.02	<b>MINIMUM</b>
<b>HIGH</b>	6.6	2.5	22.	.013	L.01	.003	3.3	.27	<b>MAXIMUM</b>
<b>AVERAGE</b>	1.27	1.1*	14.5	.0038*		.001*	1.0*	.11*	<b>MOYENNE</b>
<b>STD.DEV.</b>	1.39	.4*	7.0	.0052*		.001*	1.1*	.08*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.55	L.1.0						L.02	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.80	L.1.0	10.0	L.001	L.001	L.001	.2	.02*	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.90	L.1.0	15.5	L.001	L.001	L.001	.5	.11	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.00	1.0*	19.0	.003	L.006	.002	1.1	.17	<b>75<sup>e</sup></b>
<b>90TH</b>	2.37	1.8						.23	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINIUM EXTRBLE. AL	92500L TITANIUM TOTAL TI	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT MG/L	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>		16(0)	20(0)	7(7)	20(20)		20(11)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		.02	.02	L.01	L.001		L.003		<b>MINIMUM</b>
<b>HIGH</b>		.25	1.13	L.05	L.001		.009		<b>MAXIMUM</b>
<b>AVERAGE</b>		.10	.14				.004*		<b>MOYENNE</b>
<b>STD.DEV.</b>		.06	.25				.002*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.03	.02		L.001		L.003		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.06	.05	L.01	L.001		L.003		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.09	.06	L.05	L.001		L.003		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.12	.11	L.05	L.001		.005		<b>75<sup>e</sup></b>
<b>90TH</b>		.17	.34		L.001		.007		<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 01AT07DA0003 LAT. 57 D 45 M 20 S LONG. 112 D 10 M 0 S

UTM 12 430580E 6401880 N  
JAN 05 1977 TO/A NOV 29 1978EAGLENEST LAKE IN BIRCH MOUNTAINS  
NEAR OUTLET AOSERP

SUBM ID	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED AS	34102L SELENIUM DISSOLVED SE	ECHANTILLONS(IND.)
	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	20(0)	20(0)	16(16)	20(17)	20(3)	20(0)	20(8)	20(17)	
LOW	.032	.38	L.001	L.001	L.001	.001	L.0002	L.0002	MINIMUM
HIGH	.492	9.60	L.002	.020	.122	.051	.005	.0005	MAXIMUM
AVERAGE	.179	1.61		.003*	.016*	.013	.0009*	.0003*	MOYENNE
STD.DEV.	.155	1.99		.004*	.036*	.011	.0012*	.0001*	ECART-TYPE
PERCNT:10TH	.042	.45	L.001	L.001	L.001	.003	L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.057	.67	L.002	L.002	.001	.006	L.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.095	1.05	L.002	L.002	.003	.010	.0004	L.0002	50 <sup>e</sup> MEDIANE
75TH	.300	1.87	L.002	L.002	.008	.015	.0011*	L.0005	75 <sup>e</sup>
90TH	.425	2.28	L.002	.003	.067	.024	.0025	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

SUBM ID	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED CD	48301L CADMIUM EXTRBLE. CD	51301L ANTIMONY EXTRBLE. SB	56301L BARIUM EXTRBLE. BA	80011L MERCURY TOTAL HG	ECHANTILLONS(IND.)
	SR MG/L	MO MG/L	AG MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)			7(7)		16(16)			20(18)	
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		L.001			.0006	MAXIMUM
AVERAGE								.0001*	MOYENNE
STD.DEV.								.0001*	ECART-TYPE
PERCNT:10TH					L.001			L.0001	10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.01		L.001			L.0001	75 <sup>e</sup>
90TH					L.001			.0001*	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

SUBM ID	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO/ML	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	ECHANTILLONS(IND.)
	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	20(16)	20(0)	4(2)	5(1)	5(0)	20(0)	20(0)	20(0)	
LOW	L.002	2.	0.	0.	200.	1.	51.	30.	MINIMUM
HIGH	.008	256.	6.	350.	10000.	1020.	541.	403.	MAXIMUM
AVERAGE	.002*	17.	2.*	78.*	27140.	75.	113.	80.	MOYENNE
STD.DEV.	.001*	56.	3.*	153.*	46993.	235.*	105.	79.	ECART-TYPE
PERCNT:10TH	L.002	2.				2.	56.	33.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	1.*	L2.	2000.	4.	63.	45.	25 <sup>e</sup>
MEDIAN 50TH	L.002	4.	L2.	5.	3500.	6.	94.	64.	50 <sup>e</sup> MEDIANE
75TH	L.002	6.	4.*	33.	20000.	11.	118.	87.	75 <sup>e</sup>
90TH	.004	8.				187.	131.	99.	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **01AT07DA0004** LAT. **57 D 32 M 0 S** LONG. **112 D 28 M 40 S**

UTM **12 411530E 6377500 N**  
JAN 05, 1977 TO/À MAY 03, 1978

GARDINER LAKE LOWER SITE - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	6(0)	6(0)	6(0)	6(0)	6(0)	1(0)	6(0)		ECHANTILLONS(IND.)
LOW	44.	25.	17.4	5.	.3	7.4	17.0		MINIMUM
HIGH	250.	126.	122.3	90.	5.3	7.4	121.6		MAXIMUM
AVERAGE	123.	66.	60.1	44.	2.6		56.5		MOYENNE
STD.DEV.	75.	36.	36.3	31.	2.1		36.7		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	49.	34.	30.8	30.	.6		26.0		25 <sup>e</sup>
MEDIAN 50TH	126.	69.	62.0	35.	2.5		57.3		50 <sup>e</sup> MEDIANE
75TH	142.	72.	66.3	70.	4.6		59.6		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
SAMPLES(FLAGS)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	ECHANTILLONS(IND.)
LOW	.6	1.5	4.5	1.5	0.	21.	.4	4.3	MINIMUM
HIGH	1.5	3.5	32.5	10.0	0.	148.	2.0	8.4	MAXIMUM
AVERAGE	.9	2.8	15.95	4.9	0.	69.	1.0	6.3	MOYENNE
STD.DEV.	.3	.9	9.68	3.0	0.	45.	.6	1.4	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.6	1.9	8.2	2.5	0.	32.	.5	5.5	25 <sup>e</sup>
MEDIAN 50TH	.9	3.1	16.50	5.0	0.	70.	.8	6.2	50 <sup>e</sup> MEDIANE
75TH	1.1	3.5	17.5	5.5	0.	73.	1.2	7.1	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO P04 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
SAMPLES(FLAGS)	6(0)	6(0)	1(0)	6(2)		6(0)	6(0)		ECHANTILLONS(IND.)
LOW	.64	.05	.003	L.01		.01	.028		MINIMUM
HIGH	4.51	.31	.003	1.04		.19	.38		MAXIMUM
AVERAGE	1.732	.121		.190*		.048	.134		MOYENNE
STD.DEV.	1.546	.098		.417*		.070	.147		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.66	.05		L.01		.019	.043		25 <sup>e</sup>
MEDIAN 50TH	.990	.092		.025		.020	.050		50 <sup>e</sup> MEDIANE
75TH	2.60	.13		.03		.03	.25		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 01AT07DA0004 LAT 57 D 32 M 0 S LONG. 112 D 28 M 40 S

UTM 12 411530E 6377500 N  
JAN 05 1977 TO/A MAY 03 1978

## GARDINER LAKE LOWER SITE - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	6(0)	6(0)	6(0)	6(0)	2(0)	6(0)	6(0)	1(1)	ECHANTILLONS(IND.)
LOW	.4	5.	5.0	5.	5.3	10.	.05	L.0	MINIMUM
HIGH	12.5	32.5	32.	32.0	13.0	103.	.16	L.0	MAXIMUM
AVERAGE	5.78	15.0	13.7	14.8	9.2	48.	.10		MOYENNE
STD.DEV.	5.04	10.1	9.4	10.0	5.4	36.	.04		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.7	8.5	8.5	8.0		26.	.08		25 <sup>e</sup>
MEDIAN 50TH	5.30	11.5	11.8	11.3	9.1	34.	.09		50 <sup>e</sup> MEDIANE
75TH	9.5	21.	13.0	21.		83.	.12		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL. A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT N-ALKYL SULPHATS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	6(0)	6(4)		2(0)	3(2)	4(2)	4(2)	6(4)	ECHANTILLONS(IND.)
LOW	.5	L1.0		.002	L.001	L.001	L.1	L.02	MINIMUM
HIGH	3.15	2.0		.033	L.01	.007	1.4	.16	MAXIMUM
AVERAGE	1.11	1.2*		.0175	.004*	.003*	.6*	.06*	MOYENNE
STD.DEV.	1.02	.4*		.0219	.005*	.003*	.7*	.07*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.55	L1.0				L.001	L.1	L.02	25 <sup>e</sup>
MEDIAN 50TH	.75	L1.0		.0175	.001	.001*	.5*	L.02	50 <sup>e</sup> MEDIANE
75TH	.95	1.0				.005	1.2	.14	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	Ti MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		6(0)	6(0)	2(2)	6(5)		6(4)		ECHANTILLONS(IND.)
LOW		.02	.01	L.01	L.001		L.002		MINIMUM
HIGH		.27	.35	L.01	.002		.006		MAXIMUM
AVERAGE		.10	.11		.001*		.004*		MOYENNE
STD.DEV.		.09	.14		.000*		.002*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.03	.02		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.08	.04	L.010	L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.10	.21		L.001		.005		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **01AT07DA0004** LAT. **57 D 32 M 0 S** LONG. **112 D 28 M 40 S**

UTM **12 411530E 6377500 N**  
JAN 05, 1977 TO/À MAY 03, 1978

GARDINER LAKE LOWER SITE - AOSERP

	25304L MANGANESE EXTRBL.	26304L IRON EXTRBL.	27302L COBALT EXTRBL.	28302L NICKEL EXTRBL.	29301L COPPER EXTRBL.	30305L ZINC EXTRBL.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	6(0)	6(0)	6(6)	6(5)	6(2)	6(0)	6(3)	6(6)	<b>ECHANTILLONS(IND.)</b>
LOW	.003	.05	L.001	L.001	L.001	.002	L.0002	L.0002	MINIMUM
HIGH	6.90	8.15	L.002	L.002	.011	.023	.005	L.0005	MAXIMUM
AVERAGE	1.178	1.52		.001*	.004*	.010	.0013*		MOYENNE
STD.DEV.	2.803	3.25		.001*	.004*	.008	.0018*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.004	.07	L.001	L.001	L.001	.004	.0004	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.033	.14	L.002	.001*	.003	.009	L.0005	L.0005	50 <sup>e</sup> MEDIANE
75TH	.097	.57	L.002	L.002	.006	.014	.001	L.0005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBL.	42301L MOLYBDENUM EXTRBL.	47301L SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBL.	51301L ANTIMONY EXTRBL.	56301L BARIUM EXTRBL.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG MG/L	
<b>SAMPLES(FLAGS)</b>			4(4)		6(6)			6(6)	<b>ECHANTILLONS(IND.)</b>
LOW			L.00		L.001			L.0001	MINIMUM
HIGH			L.01		L.002			L.0001	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.00		L.001			L.0001	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.0001	50 <sup>e</sup> MEDIANE
75TH			L.00		L.001			L.0001	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBL.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/100ML	MPN NO/100ML	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	6(5)	6(0)	1(1)	1(1)	1(0)	6(1)	6(0)	5(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.002	2.	L2.	L2.	110.	L0.	29.	21.	MINIMUM
HIGH	.002	8.	L2.	L2.	110.	8.	150.	83.	MAXIMUM
AVERAGE	.002*	3.				3.*	77.	58.	MOYENNE
STD.DEV.	.000*	2.				3.*	45.	24.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.				2.	32.	50.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.				3.	81.	64.	50 <sup>e</sup> MEDIANE
75TH	L.002	2.				3.	91.	73.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 01AT07DD0001 LAT. 58 D 24M 0 S LONG. 111 D 4M 0 S

UTM 12 496100E 6473030 N  
SEP 10 1976 TO/A DEC 05 1978

RICHARDSON LAKE CENTER AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	5(2)	9(0)	3(0)	10(0)	1(0)	ECHANTILLONS(IND.)
LOW	190.	103.	84.8	L5.	1.0	7.2	82.5	-.2	MINIMUM
HIGH	300.	195.	170.8	20.	120.	8.5	157.8	-.2	MAXIMUM
AVERAGE	223.	126.	104.4	12.*	35.0		99.2		MOYENNE
STD.DEV.	36.	25.	24.0	7.*	41.1		21.8		ECART-TYPE
PERCNT:10TH	191.	109.	88.6				84.6		10 <sup>e</sup> PERCNT
25TH	192.	115.	96.3	L5.	8.6		88.6		25 <sup>e</sup>
MEDIAN 50TH	215.	118.	97.9	15.	17.5	7.7	91.6		50 <sup>e</sup> MEDIANE
75TH	230.	127.	103.3	15.	39.5		99.5		75 <sup>e</sup>
90TH	284.	163.	137.5				132.7		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	10(0)	10(0)	10(4)	10(4)	10(0)	10(0)	ECHANTILLONS(IND.)
LOW	1.0	7.5	23.40	6.4	0.	Q100.	4.9	8.2	MINIMUM
HIGH	2.0	12.0	45.00	14.2	Q0.	Q192.	8.5	21.5	MAXIMUM
AVERAGE	1.5	8.8	28.76	7.9	0.*	121.*	6.1	13.8	MOYENNE
STD.DEV.	.3	1.6	5.92	2.3	0.*	27.*	1.2	4.2	ECART-TYPE
PERCNT:10TH	1.0	7.5	24.45	6.5	0.	103.	5.0	8.8	10 <sup>e</sup> PERCNT
25TH	1.2	7.8	26.5	7.0	0.	108.	5.2	11.0	25 <sup>e</sup>
MEDIAN 50TH	1.5	8.0	27.50	7.3	0.	112.	5.7	12.8	50 <sup>e</sup> MEDIANE
75TH	1.8	10.3	28.50	7.5	Q0.	121.	6.6	16.0	75 <sup>e</sup>
90TH	1.9	11.3	37.00	11.1	0.	162.	8.1	20.3	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SAMPLES(FLAGS)	9(0)	9(1)	3(3)	8(1)	1(0)	9(1)	9(0)		ECHANTILLONS(IND.)
LOW	.09	.003	L.003	L.01	.28	L.003	.022		MINIMUM
HIGH	1.78	.170	L.003	.310	.28	.019	.138		MAXIMUM
AVERAGE	1.269	.037*		.080*		.008*	.060		MOYENNE
STD.DEV.	.528	.058*		.098*		.005*	.043		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.15	.005		.025		.005	.032		25 <sup>e</sup>
MEDIAN 50TH	1.40	L.01	L.003	.048		.006	.042		50 <sup>e</sup> MEDIANE
75TH	1.62	.030		.085		.008	.075		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **01AT07DD0001** LAT. **58 D 24 M 0 S** LONG. **111 D 4 M 0 S**

UTM **12 496100E 6473030 N**  
SEP 10, 1976 TO/À DEC 05, 1978

RICHARDSON LAKE CENTER - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	10(0)	10(0)	10(0)	9(0)	8(0)	9(0)	7(1)	4(4)	<b>ECHANTILLONS(IND.)</b>
LOW	4.1	6.5	14.0	4.5	3.7	7.	L.05	L.0	<b>MINIMUM</b>
HIGH	14.00	15.0	33.0	14.0	14.2	151.	.12	L.0	<b>MAXIMUM</b>
AVERAGE	6.60	11.3	19.1	9.0	9.0	53.	.09*		<b>MOYENNE</b>
STD.DEV.	3.02	2.6	5.5	3.2	3.2	41.	.02*		<b>ECART-TYPE</b>
PERCNT:10TH	4.15	7.5	14.3						<b>10<sup>e</sup> PERCNT</b>
25TH	4.5	10.0	15.5	7.	7.2	29.	.08	L.0	<b>25<sup>e</sup></b>
MEDIAN 50TH	5.40	11.5	17.8	8.5	9.4	47.	.10	L.0	<b>50<sup>e</sup> MEDIANE</b>
75TH	7.8	13.5	20.	10.5	10.3	60.	.10	L.0	<b>75<sup>e</sup></b>
90TH	11.10	14.5	27.5						<b>90<sup>e</sup></b>
SECONDARY CODE	02L						07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS MG/L	
<b>SAMPLES(FLAGS)</b>	9(0)	8(8)	4(1)	4(1)				8(1)	<b>ECHANTILLONS(IND.)</b>
LOW	.2	L1.0	L0.	L.001				L.02	<b>MINIMUM</b>
HIGH	1.3	L1.0	10.	.009				.38	<b>MAXIMUM</b>
AVERAGE	.56		6.7*	.0038*				.09*	<b>MOYENNE</b>
STD.DEV.	.36		4.0*	.0036*				.12*	<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH	.3	L1.0	4.0*	.0015*				.03	<b>25<sup>e</sup></b>
MEDIAN 50TH	.40	L1.0	8.0	.0025				.05	<b>50<sup>e</sup> MEDIANE</b>
75TH	.8	L1.0	9.5	.0060				.10	<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINIUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TL MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b>		5(0)	8(0)		9(7)	1(0)	8(3)	1(1)	<b>ECHANTILLONS(IND.)</b>
LOW		.04	.06		L.001	.002	L.003	L.015	<b>MINIMUM</b>
HIGH		.12	7.2		.003	.002	.009	L.015	<b>MAXIMUM</b>
AVERAGE		.07	1.27		.001*		.004*		<b>MOYENNE</b>
STD.DEV.		.03	2.43		.001*		.002*		<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH		.05	.18		L.001		L.003		<b>25<sup>e</sup></b>
MEDIAN 50TH		.06	.32		L.001		.003		<b>50<sup>e</sup> MEDIANE</b>
75TH		.08	.96		L.001		.005		<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE			02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB BASIN

STATION 01A707DD0001 LAT. 58 D 24 M 0 S LONG. 111 D 4 M 0 S

UTM 12 496100E 6473030 N  
SEP 10 1976 TO/A DEC 05 1978

RICHARDSON LAKE CENTER - AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34107L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
SAMPLES(FLAGS)	10(0)	10(0)	5(4)	9(4)	10(1)	9(0)	10(5)	10(9)	ECHANTILLONS(IND.)
LOW	.002	.17	L.002	L.001	L.001	.002	L.0002	L.0002	MINIMUM
HIGH	.135	4.75	.003	.005	.021	.053	.0012	L.0005	MAXIMUM
AVERAGE	.041	1.68	.002*	.002*	.004*	.015	.0005*	.0003*	MOYENNE
STD.DEV.	.038	1.68	.000*	.001*	.006*	.016	.0003*	.0001*	ECART-TYPE
PERCNT:10TH	.008	.27			.001*		L.0002	L.0002	10 <sup>e</sup> PERCNT
25TH	.018	.51	L.002	L.002	.001	.004	L.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.029	.83	L.002	L.002	.003	.011	.0004*	L.0002	50 <sup>e</sup> MEDIANE
75TH	.050	2.7	L.002	.003	.004	.017	.0008	.0002	75 <sup>e</sup>
90TH	.099	4.58			.014		.0011	L.0005	90 <sup>e</sup>
SECONDARY CODE					05L		01L		CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG UG/L	
SAMPLES(FLAGS)			2(2)		6(3)			9(9)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.00	MINIMUM
HIGH			L.00		.002			L.00	MAXIMUM
AVERAGE					.001*				MOYENNE
STD.DEV.					.000*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					L.001			L.00	25 <sup>e</sup>
MEDIAN 50TH			L.00		.001*			L.00	50 <sup>e</sup> MEDIANE
75TH					.001			L.00	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/DL	MPN NO/DL	BACT.DENS NO/ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	10(6)	9(0)	5(0)	5(0)	5(0)	9(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	70.	1.	122.	101.	MINIMUM
HIGH	.006	4.	13.	23.	1100.	126.	198.	133.	MAXIMUM
AVERAGE	.003*	2.	3.	6.	408.	36.	145.	114.	MOYENNE
STD.DEV.	.001*	1.	5.	10.	428.	43.	26.	10.	ECART-TYPE
PERCNT:10TH	L.002								10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	2.	130.	8.	129.	108.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	2.	2.	200.	14.	138.	109.	50 <sup>e</sup> MEDIANE
75TH	.003	2.	2.	2.	540.	39.	147.	121.	75 <sup>e</sup>
90TH	.006								90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **01AT07KF0001** LAT. **58 D 34 M 33 S** LONG. **112 D 4 M 31 S**

UTM **12 437470E 6493110 N**  
JUL 05, 1977 TO/A MAR 27, 1979

LAKE CLAIRE 10.5 KILOMETERS DUE EAST  
OF THE NORTH END OF BIRCH RIVER-AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>5(0)</b>	<b>12(0)</b>	<b>3(0)</b>	<b>12(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>400.</b>	<b>183.</b>	<b>136.5</b>	<b>15.</b>	<b>1.9</b>	<b>7.0</b>	<b>17.5</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>950.</b>	<b>582.</b>	<b>306.9</b>	<b>35.</b>	<b>262.</b>	<b>8.5</b>	<b>194.4</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>575.</b>	<b>340.</b>	<b>188.4</b>	<b>24.</b>	<b>72.4</b>		<b>108.2</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>185.</b>	<b>120.</b>	<b>59.8</b>	<b>8.</b>	<b>80.0</b>		<b>51.1</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>420.</b>	<b>247.</b>	<b>138.9</b>		<b>7.8</b>		<b>24.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>445.</b>	<b>262.</b>	<b>143.7</b>	<b>20.</b>	<b>12.9</b>		<b>89.3</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>500.</b>	<b>292.</b>	<b>154.0</b>	<b>20.</b>	<b>39.4</b>	<b>7.6</b>	<b>106.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>634.</b>	<b>379.</b>	<b>227.2</b>	<b>30.</b>	<b>102.0</b>		<b>142.6</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>918.</b>	<b>544.</b>	<b>284.1</b>		<b>177.</b>		<b>157.3</b>		<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED S04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>12(7)</b>	<b>12(7)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.6</b>	<b>33.0</b>	<b>37.5</b>	<b>9.8</b>	<b>0.</b>	<b>21.</b>	<b>38.0</b>	<b>42.2</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>4.4</b>	<b>91.0</b>	<b>85.00</b>	<b>23.0</b>	<b>Q0.</b>	<b>237.</b>	<b>130.0</b>	<b>180.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>3.0</b>	<b>50.3</b>	<b>51.30</b>	<b>14.7</b>	<b>0.*</b>	<b>132.*</b>	<b>64.5</b>	<b>91.2</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.9</b>	<b>17.4</b>	<b>15.91</b>	<b>5.0</b>	<b>0.*</b>	<b>62.*</b>	<b>28.5</b>	<b>38.5</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>1.7</b>	<b>34.5</b>	<b>38.50</b>	<b>10.7</b>	<b>0.</b>	<b>Q29.</b>	<b>38.8</b>	<b>56.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>2.4</b>	<b>38.3</b>	<b>39.50</b>	<b>10.8</b>	<b>0.</b>	<b>109.</b>	<b>46.8</b>	<b>64.5</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>3.1</b>	<b>45.8</b>	<b>43.45</b>	<b>11.3</b>	<b>0.</b>	<b>129.</b>	<b>54.5</b>	<b>80.8</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>3.4</b>	<b>56.5</b>	<b>58.85</b>	<b>19.5</b>	<b>0.</b>	<b>174.</b>	<b>75.5</b>	<b>115.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>4.1</b>	<b>74.0</b>	<b>77.5</b>	<b>22.0</b>	<b>Q0.</b>	<b>Q192.</b>	<b>106.0</b>	<b>126.0</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL P04 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>7(2)</b>	<b>11(0)</b>		<b>12(1)</b>	<b>12(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.12</b>	<b>.003</b>	<b>L.003</b>	<b>.009</b>		<b>L.003</b>	<b>.023</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>3.33</b>	<b>.240</b>	<b>.014</b>	<b>.15</b>		<b>.030</b>	<b>.370</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.477</b>	<b>.058</b>	<b>.008*</b>	<b>.044</b>		<b>.014*</b>	<b>.106</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.097</b>	<b>.072</b>	<b>.004*</b>	<b>.041</b>		<b>.009*</b>	<b>.094</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.32</b>	<b>.006</b>		<b>.010</b>		<b>.003</b>	<b>.050</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.735</b>	<b>.007</b>	<b>L.003</b>	<b>.01</b>		<b>.008</b>	<b>.062</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.120</b>	<b>.034</b>	<b>.006</b>	<b>.036</b>		<b>.013</b>	<b>.071</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.410</b>	<b>.076</b>	<b>.012</b>	<b>.06</b>		<b>.021</b>	<b>.108</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>3.15</b>	<b>.150</b>		<b>.070</b>		<b>.029</b>	<b>.198</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 01AT07KF0001 LAT. 58 D 34 M 33 S LONG. 112 D 4 M 31 S

UTM 12 437470E 6493110 N  
JUL 05 1977 TO/A MAR 27 1979LAKE CLAIRE 10.5 KILOMETERS DUE EAST  
OF THE NORTH END OF BIRCH RIVER AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	10(0)	7(7)	ECHANTILLONS(IND.)
LOW	.90	2.5	14.5	2.0	4.5	28.	.10	L.0	MINIMUM
HIGH	13.50	61.0	38.0	59.0	15.	185.	.34	L.0	MAXIMUM
AVERAGE	5.22	25.8	24.7	24.2	9.8	84.	.19		MOYENNE
STD.DEV.	4.44	17.3	8.0	16.9	3.7	44.	.08		ECART-TYPE
PERCNT:10TH	1.7	10.0	16.	9.0	5.2	32.	.10		10 <sup>e</sup> PERCNT
25TH	2.10	14.8	16.5	15.0	6.5	56.	.12	L.0	25 <sup>e</sup>
MEDIAN 50TH	3.05	21.8	25.8	17.0	9.9	79.	.18	L.0	50 <sup>e</sup> MEDIANE
75TH	8.35	34.5	30.8	33.8	13.2	101.	.21	L.0	75 <sup>e</sup>
90TH	12.80	51.5	33.5	49.5	14.7	128.	.32		90 <sup>e</sup>
SECONDARY CODE	02L						07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	12(0)	10(7)	7(2)	7(4)				10(2)	ECHANTILLONS(IND.)
LOW	.4	L.0	L.0	L.001				L.02	MINIMUM
HIGH	4.9	7.	57.	.012				.49	MAXIMUM
AVERAGE	1.44	2.1*	24.4*	.0031*				.17*	MOYENNE
STD.DEV.	1.40	2.0*	24.8*	.0041*				.15*	ECART-TYPE
PERCNT:10TH	.5	L1.0						L.02	10 <sup>e</sup> PERCNT
25TH	.58	L1.0	L.0	L.001				.09	25 <sup>e</sup>
MEDIAN 50TH	.70	L1.0	10.	L.001				.11	50 <sup>e</sup> MEDIANE
75TH	2.05	3.	54.	.004				.25	75 <sup>e</sup>
90TH	3.1	5.5						.43	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL TL	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT CR	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	1(1)	6(0)	10(0)	1(1)	12(8)		9(6)		ECHANTILLONS(IND.)
LOW	L.001	.09	.12	L.05	L.001		L.003		MINIMUM
HIGH	L.001	.21	2.85	L.05	.004		.011		MAXIMUM
AVERAGE		.11	.73		.002*		.004*		MOYENNE
STD.DEV.		.05	.82		.001*		.003*		ECART-TYPE
PERCNT:10TH			.14		L.001				10 <sup>e</sup> PERCNT
25TH		.09	.15		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.09	.53		L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.11	1.00		.002		.003		75 <sup>e</sup>
90TH			1.98		.004				90 <sup>e</sup>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **01AT07KF0001** LAT. **58 D 34 M 33 S** LONG. **112 D 4 M 31 S**UTM **12 437470 E 6493110 N**  
JUL 05, 1977 TO/À MAR 27, 1979LAKE CLAIRE 10.5 KILOMETERS DUE EAST  
OF THE NORTH END OF BIRCH RIVER-AOSERP

	25304L MANGANESE EXTRBLE.	26304L IRON EXTRBLE.	27302L COBALT EXTRBLE.	28302L NICKEL EXTRBLE.	29301L COPPER EXTRBLE.	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	
SUBM ID	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SE MG/L	
<b>SAMPLES(FLAGS)</b>	12(0)	12(0)	4(3)	10(0)	12(0)	10(0)	12(0)	12(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.009	.13	L.001	.002	.002	.005	.0003	L.0002	<b>MINIMUM</b>
<b>HIGH</b>	.245	8.00	.002	.007	.026	.033	.0027	L.002	<b>MAXIMUM</b>
<b>AVERAGE</b>	.053	2.18	.002*	.004	.007	.014	.0011	.0004*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.068	2.43	.001*	.002	.006	.009	.0008	.0005*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.009	.43		.003	.003	.006	.0003	L.0002	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.011	.68	L.001	.003	.005	.009	.0005	L.0002	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.033	.86	L.002	.004	.006	.011	.0010	.0002*	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.059	3.58	.002*	.006	.007	.018	.0017	.0004	<b>75<sup>e</sup></b>
<b>90TH</b>	.110	5.10		.007	.011	.028	.0022	.0007	<b>90<sup>e</sup></b>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47301L SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48301L CADMIUM EXTRBLE.	51301L ANTIMONY EXTRBLE.	56301L BARIUM EXTRBLE.	80011L MERCURY TOTAL	
SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	BA MG/L	HG UG/L	
<b>SAMPLES(FLAGS)</b>			1(1)		6(6)			11(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			L.00		L.001			L.00	<b>MINIMUM</b>
<b>HIGH</b>			L.00		L.001			.01	<b>MAXIMUM</b>
<b>AVERAGE</b>								.00*	<b>MOYENNE</b>
<b>STD.DEV.</b>								.00*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								L.00	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					L.001			L.00	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					L.001			.00	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					L.001			.00	<b>75<sup>e</sup></b>
<b>90TH</b>								.00	<b>90<sup>e</sup></b>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE.	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS.	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	PB MG/L	TON	MPN NO/DL	MPN NO/DL	NO/ML	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	12(7)	12(0)	7(0)	7(0)	7(2)	12(0)	12(0)	12(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.002	2.	0.	0.	L10.	2.	240.	193.	<b>MINIMUM</b>
<b>HIGH</b>	.005	4.	2.	0.	9200.	219.	627.	548.	<b>MAXIMUM</b>
<b>AVERAGE</b>	.003*	2.	0.	0.	1369.*	55.	373.	292.	<b>MOYENNE</b>
<b>STD.DEV.</b>	.001*	1.	1.	0.	3454.*	65.	127.	99.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.002	2.				4.	252.	230.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.002	2.	0.	0.	L10.	7.	288.	236.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.002	2.	0.	0.	40.	31.	330.	256.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.003	2.	0.	0.	230.	88.	417.	303.	<b>75<sup>e</sup></b>
<b>90TH</b>	.004	4.				126.	606.	421.	<b>90<sup>e</sup></b>
SECONDARY CODE		02L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB BASIN

STATION 01AT07KF0002 LAT. 58 D 26M 0 S LONG. 112 D 4M 12 S

UTM 12 437530E 6477240N  
MAY 30 1977 TO/A FEB 13 1979

LAKE CLAIRE AT 28TH BASELINE DUE WEST  
OF WILLOW POINT 2.75 MILES SITE 79

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10601L HARDNESS TOTAL (CALCD.) CaCO3	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CaCO3	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM	MG/L	MG/L				MG/L		
SAMPLES(FLAGS)	11(0)	11(0)	11(0)	6(0)	11(0)	2(0)	11(0)		ECHANTILLONS(IND.)
LOW	400.	232.	112.9	15.	2.1	6.9	59.2		MINIMUM
HIGH	1200.	802.	425.4	35.	475.	7.8	193.0		MAXIMUM
AVERAGE	645.	390.	201.5	26.	105.8		111.8		MOYENNE
STD.DEV.	290.	199.	96.1	7.	138.5		41.1		ECART-TYPE
PERCNT:10TH	415.	238.	128.2		5.7		78.2		10 <sup>e</sup> PERCNT
25TH	430.	241.	136.5	20.	15.0		85.4		25 <sup>e</sup>
MEDIAN 50TH	548.	322.	162.2	28.	60.5	7.3	99.2		50 <sup>e</sup> MEDIANE
75TH	1000.	604.	286.2	30.	180.		135.2		75 <sup>e</sup>
90TH	1030.	649.	302.8		183.		176.0		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K	11101L SODIUM DISSOLVED NA	20101L CALCIUM DISSOLVED CA	12102L MAGNESIUM DISSOLVED MG	06301L CARBONATE (CALCD.) CO3	06201L BICARBONATE (CALCD.) HCO3	17201L CHLORIDE DISSOLVED CL	16306L SULPHATE DISSOLVED SO4	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	11(0)	11(0)	11(0)	11(0)	11(5)	11(5)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW	1.8	28.5	32.5	7.7	0.	72.	30.0	47.5	MINIMUM
HIGH	5.8	110.0	126.00	26.9	Q0.	235.	160.0	268.0	MAXIMUM
AVERAGE	3.3	60.8	57.64	14.0	0.*	136.*	79.3	108.3	MOYENNE
STD.DEV.	1.3	29.9	28.32	6.3	0.*	50.*	42.2	74.6	ECART-TYPE
PERCNT:10TH	1.9	37.0	37.00	8.7	0.	Q95.	44.0	57.5	10 <sup>e</sup> PERCNT
25TH	1.9	37.5	38.50	9.8	0.	104.	50.0	58.8	25 <sup>e</sup>
MEDIAN 50TH	3.4	52.5	46.0	11.5	0.	Q121.	71.5	86.5	50 <sup>e</sup> MEDIANE
75TH	4.6	99.0	80.00	21.0	Q0.	Q165.	126.0	145.0	75 <sup>e</sup>
90TH	4.8	105.0	85.0	22.0	Q0.	Q214.	135.0	228.0	90 <sup>e</sup>
SECONDARY CODE	02L 03L	02L 03L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL	07110L NITROGEN DISSOLVED NO3 & NO2	07206L NITROGEN DISSOLVED NITRITE	07555L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	15407L PHOSPHATE TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P04 MG/L	
SAMPLES(FLAGS)	11(0)	11(1)	6(2)	11(1)		11(1)	11(0)		ECHANTILLONS(IND.)
LOW	.90	L.001	L.003	L.01		.005	.032		MINIMUM
HIGH	3.35	.200	.010	.08		.180	.230		MAXIMUM
AVERAGE	1.472	.078*	.006*	.048*		.026*	.100		MOYENNE
STD.DEV.	.717	.075*	.003*	.022*		.051*	.073		ECART-TYPE
PERCNT:10TH	1.00	.003		.03		.005	.036		10 <sup>e</sup> PERCNT
25TH	1.00	.005	L.003	.030		.007	.037		25 <sup>e</sup>
MEDIAN 50TH	1.16	.066	.006	.05		.010	.080		50 <sup>e</sup> MEDIANE
75TH	1.89	.144	.006	.070		.017	.15		75 <sup>e</sup>
90TH	1.95	.193		.070		.020	.22		90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **01AT07KF0002** LAT. **58 D 26M 0 S** LONG. **112 D 4M 12 S**

UTM **12 437530 E 6477240 N**  
MAY 30, 1977 TO/À FEB 13, 1979

LAKE CLAIRE AT 28TH BASELINE DUE WEST  
OF WILLOW POINT 2.75 MILES SITE 79

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SiO2 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
<b>SAMPLES(FLAGS)</b>	11(0)	11(0)	11(0)	11(0)	10(0)	11(0)	9(1)	5(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.00</b>	<b>5.</b>	<b>14.</b>	<b>2.</b>	<b>6.6</b>	<b>18.</b>	<b>L.05</b>	<b>L.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>11.50</b>	<b>51.0</b>	<b>41.5</b>	<b>48.0</b>	<b>14.6</b>	<b>117.</b>	<b>.45</b>	<b>.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>4.34</b>	<b>20.8</b>	<b>21.5</b>	<b>19.2</b>	<b>10.5</b>	<b>71.</b>	<b>.25*</b>	<b>.0*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	3.62	14.2	8.9	13.7	2.5	27.	.15*	.0*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	1.3	9.0	14.	8.0	7.4	47.			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	1.6	10.0	15.0	9.0	8.8	54.	.16	L.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	2.9	16.5	18.0	15.0	10.1	75.	.20	L.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	8.00	30.5	29.5	30.5	12.2	95.	.43	L.0	<b>75<sup>e</sup></b>
<b>90TH</b>	9.50	38.5	32.0	34.0	14.4	99.			<b>90<sup>e</sup></b>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBLE.	93050L FULVIC ACID EXTRBLE.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS. LAS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	11(0)	9(6)	5(1)	4(4)		3(3)	5(1)	9(2)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.4</b>	<b>L.0.</b>	<b>L.0.</b>	<b>L.001</b>		<b>L.001</b>	<b>L.1</b>	<b>L.02</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>3.2</b>	<b>4.</b>	<b>56.</b>	<b>L.001</b>		<b>L.001</b>	<b>2.2</b>	<b>.23</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.10</b>	<b>1.6*</b>	<b>19.6*</b>				<b>1.0*</b>	<b>.13*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	.81	1.0*	22.1*				.8*	.08*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.4								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.65	L.0.	3.	L.0010			.3	.07	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.8	L.1.0	17.	L.0010		L.001	1.2	.12	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.30	2.	21.	L.0010			1.3	.21	<b>75<sup>e</sup></b>
<b>90TH</b>	1.8								<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBLE. BE	05105L BORON DISSOLVED B	13301L ALUMINUM EXTRBLE. AL	92500L TITANIUM TOTAL TL	23001L VANADIUM TOTAL V	23301L VANADIUM EXTRBLE. V	24101L CHROMIUM HEXAVALENT MG/L	24302L CHROMIUM EXTRBLE. CR	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>		7(0)	9(0)	1(1)	11(8)		9(5)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.03</b>	<b>.10</b>	<b>L.05</b>	<b>L.001</b>		<b>L.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.22</b>	<b>6.9</b>	<b>L.05</b>	<b>.003</b>		<b>.026</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.10</b>	<b>1.63</b>		<b>.001*</b>		<b>.010*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		.06	2.19		.001*		.010*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					L.001				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.05	.38		L.001		L.003		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.09	.65		L.001		L.003		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.12	2.35		.002		.019		<b>75<sup>e</sup></b>
<b>90TH</b>					.003				<b>90<sup>e</sup></b>
SECONDARY CODE		06L	02L		02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 01AT07KF0002 LAT. 58 D 26 M 0 S LONG. 112 D 4 M 12 S

UTM 12 437530i 6477240 N  
MAY 30 1977 TO-A FEB 13 1979LAKE CLAIRE AT 28TH BASELINE DUE WEST  
OF WILLOW POINT 2.75 MILES SITE 79

	25304L MANGANESE EXTRBLE. MN MG/L	26304L IRON EXTRBLE. FE MG/L	27302L COBALT EXTRBLE. CO MG/L	28302L NICKEL EXTRBLE. NI MG/L	29301L COPPER EXTRBLE. CU MG/L	30305L ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	11(0)	11(0)	4(3)	9(2)	11(0)	9(0)	11(0)	11(5)	ECHANTILLONS(IND.)
LOW	.007	.12	L.002	L.002	.002	.002	.0004	L.0002	MINIMUM
HIGH	.295	14.7	.004	.015	.063	.464	.0036	.0009	MAXIMUM
AVERAGE	.068	3.40	.002*	.005*	.012	.068	.0016	.0004*	MOYENNE
STD.DEV.	.091	4.67	.001*	.004*	.017	.149	.0012	.0002*	ECART-TYPE
PERCNT:10TH	.008	.30			.003		.0004	L.0002	10 <sup>e</sup> PERCNT
25TH	.012	.50	L.002	.002	.004	.009	.0007	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.028	1.55	L.002	.005	.008	.016	.0009	.0002	50 <sup>e</sup> MEDIANE
75TH	.088	6.10	.003*	.007	.010	.039	.0025	.0005	75 <sup>e</sup>
90TH	18	8.96			.011		.0035	.0007	90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80011L MERCURY TOTAL HG UG/L	
SAMPLES(FLAGS)			2(2)		6(6)			11(8)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.00	MINIMUM
HIGH			L.00		L.001			.00	MAXIMUM
AVERAGE								.00*	MOYENNE
STD.DEV.								.00*	ECART-TYPE
PERCNT:10TH								L.00	10 <sup>e</sup> PERCNT
25TH					L.001			L.00	25 <sup>e</sup>
MEDIAN 50TH			L.00		L.001			L.00	50 <sup>e</sup> MEDIANE
75TH					L.001			.00	75 <sup>e</sup>
90TH								.00	90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE. Pb MG/L	02001L ODOUR THRESHOLD NUMBER	36011L COLIFORMS FECAL MPN NO./DL	36001L COLIFORMS TOTAL MPN NO./DL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS. NO./ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	11(8)	11(0)	5(0)	5(0)	5(1)	11(0)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	L.10	3.	242.	179.	MINIMUM
HIGH	.007	8.	2.	5.	2000.	432.	792.	619.	MAXIMUM
AVERAGE	.002*	3.	0.	1.	588.*	88.	410.	335.	MOYENNE
STD.DEV.	.002*	2.	1.	2	878.*	127.	201.	140.	ECART-TYPE
PERCNT:10TH	L.002	2.				4.	249.	207.	10 <sup>e</sup> PERCNT
25TH	L.002	2.	0.	0.	10.	5.	258.	228.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	0.	0.	20.	43.	329.	299.	50 <sup>e</sup> MEDIANE
75TH	.002	4.	0.	0.	900	148.	660.	458.	75 <sup>e</sup>
90TH	.002	4.				157.	680.	515.	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION 01AT07MD0001 LAT. 58 D 56M 11 S LONG. 110 D 42M 44 S

UTM 12 516570E 6532790 N  
JUL 05, 1977 TO/À JAN 09, 1979

LAKE ATHABASCA AT SANDY POINT - DUE  
WEST OF TIP OF SANDY POINT - AOSERP

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10601L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301F PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS)	8(0)	8(0)	8(0)	4(4)	9(0)	2(0)	8(0)		ECHANTILLONS(IND.)
LOW	70.	42.	32.5	L5.	1.3	7.3	30.0		MINIMUM
HIGH	152.	70.	63.0	L5.	32.5	8.1	57.8		MAXIMUM
AVERAGE	95.	50.	40.4		9.0		37.5		MOYENNE
STD.DEV.	31.	13.	12.2		11.0		10.7		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	77.	42.	33.3	L5.	1.9		30.8		25 <sup>e</sup>
MEDIAN 50TH	82.	43.	34.8	L5.	4.0	7.7	32.9		50 <sup>e</sup> MEDIANE
75TH	110.	57.	45.8	L5.	9.6		42.4		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	8(0)	8(0)	8(0)	8(0)	8(4)	8(4)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	.7	2.8	8.40	2.5	0.	37.	3.4	2.4	MINIMUM
HIGH	1.2	4.5	17.00	5.0	Q0.	Q70.	5.6	8.4	MAXIMUM
AVERAGE	.9	3.5	10.90	3.2	0.*	46.*	4.0	4.6	MOYENNE
STD.DEV.	.2	.6	3.35	.9	0.*	13.*	.8	2.0	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.8	3.0	8.90	2.7	0.	37.	3.5	3.3	25 <sup>e</sup>
MEDIAN 50TH	1.0	3.3	9.50	2.7	0.	40.	3.5	4.1	50 <sup>e</sup> MEDIANE
75TH	1.0	4.0	12.50	3.7	0.	52.	4.4	5.7	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	03L 02L	03L 02L	03L				03L		CODE DE SECOURS

	07013L NITROGEN TOTAL KJELDAHL N MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07206L NITROGEN DISSOLVED NITRITE N MG/L	07555L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	15407L PHOSPHATE TOTAL PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	9(0)	9(0)	4(1)	8(2)		9(2)	9(0)		ECHANTILLONS(IND.)
LOW	.08	.003	L.003	L.002		L.003	.005		MINIMUM
HIGH	1.20	.082	.007	.138		.009	.040		MAXIMUM
AVERAGE	.483	.026	.004*	.041*		.005*	.015		MOYENNE
STD.DEV.	.407	.027	.002*	.046*		.002*	.010		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.20	.009	.003*	.007*		.003	.011		25 <sup>e</sup>
MEDIAN 50TH	.37	.014	.003	.025		.004	.012		50 <sup>e</sup> MEDIANE
75TH	.50	.028	.005	.060		.005	.016		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	15L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB-BASIN

STATION 01AT07MD0001 LAT. 58 D 56M 11 S LONG. 110 D 42M 44 S

UTM 12 516570E 6532790 N  
JUL 05 1977 TO/A JAN 09 1979LAKE ATHABASCA AT SANDY POINT - DUE  
WEST OF TIP OF SANDY POINT - AOSERP

	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	08102F OXYGEN DISSOLVED	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	16101L SULPHIDE DISSOLVED	
SUBM ID	SI02 MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	O2 MG/L	F MG/L	S MG/L	
SAMPLES(FLAGS)	8(0)	9(0)	9(0)	9(0)	9(0)	9(0)	6(3)	5(5)	ECHANTILLONS(IND.)
LOW	1.20	1.5	6.5	1.5	2.1	4.	L.05	L.0	MINIMUM
HIGH	15.30	5.5	14.5	5.0	10.3	156.	.09	L.0	MAXIMUM
AVERAGE	4.24	4.2	9.1	3.4	8.2	36.	.07*		MOYENNE
STD.DEV.	4.52	1.2	2.5	1.3	2.8	49.	.02*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	2.50	4.0	7.5	2.5	7.2	10.	L.05	L.0	25 <sup>e</sup>
MEDIAN 50TH	2.95	4.	9.0	3.5	9.6	16.	.06*	L.0	50 <sup>e</sup> MEDIANE
75TH	3.25	5.0	10.0	4.5	9.9	23.	.08	L.0	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE							07L		CODE DE SECOURS

	06551L TANNIN AND LIGNIN	06581L HUMIC ACID EXTRBL.	93050L FULVIC ACID EXTRBL.	06711L CHLORO - PHYLL A	06603L CYANIDE	06532L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS	
SUBM ID	T&L MG/L	MG/L	MG/L	MG/L	CN MG/L	MG/L	MG/L	LAS. MG/L	
SAMPLES(FLAGS)	8(0)	7(7)	4(2)	3(3)		4(4)	5(1)	8(2)	ECHANTILLONS(IND.)
LOW	.1	L.0	L.0	L.001		L.001	L.1	L.02	MINIMUM
HIGH	.6	L1.0	2.	L.001		L.001	1.9	.20	MAXIMUM
AVERAGE	.23		1.2*				1.1*	.07*	MOYENNE
STD.DEV.	.17		.5*				.7*	.07*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.10	L.0	L1.0			L.001	.6	.02*	25 <sup>e</sup>
MEDIAN 50TH	.20	L1.0	1.0*	L.001		L.001	1.2	.03	50 <sup>e</sup> MEDIANE
75TH	.28	L.0	1.5			L.001	1.5	.11	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	04301L BERYLLIUM EXTRBL.	05105L BORON DISSOLVED	13301L ALUMINUM EXTRBL.	92500L TITANIUM TOTAL	23001L VANADIUM TOTAL	23301L VANADIUM EXTRBL.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBL.	
SUBM ID	BE MG/L	B MG/L	AL MG/L	TL MG/L	V MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)		4(1)	7(0)		8(8)		8(5)		ECHANTILLONS(IND.)
LOW		.01	.05		L.001		L.003		MINIMUM
HIGH		L.05	.44		L.001		.003		MAXIMUM
AVERAGE		.03*	.19				.003*		MOYENNE
STD.DEV.		.02*	.14				.000*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.02	.09		L.001		L.003		25 <sup>e</sup>
MEDIAN 50TH		.04	.12		L.001		L.003		50 <sup>e</sup> MEDIANE
75TH		.04*	.31		L.001		.003		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				32L	02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB-BASIN

STATION **01AT07MD0001** LAT. **58 D 56M 11 S** LONG. **110 D 42M 44 S**UTM **12 516570E 6532790 N**  
JUL 05, 1977 TO/À JAN 09, 1979LAKE ATHABASCA AT SANDY POINT - DUE  
WEST OF TIP OF SANDY POINT - AOSERP

	25304L MANGANESE EXTRBLE. MN MG/L	26304L IRON EXTRBLE. FE MG/L	27302L COBALT EXTRBLE. CO MG/L	28302L NICKEL EXTRBLE. NI MG/L	29301L COPPER EXTRBL. CU MG/L	30305L ZINC EXTRBLE. ZN MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	
SAMPLES(FLAGS)	8(0)	8(0)	3(3)	7(5)	8(2)	7(0)	9(4)	9(8)	ECHANTILLONS(IND.)
LOW	.001	.09	L.002	L.001	L.001	.001	L.0002	L.0002	MINIMUM
HIGH	.540	3.50	L.002	.004	.013	.195	.0015	.0004	MAXIMUM
AVERAGE	.073	.65		.002*	.003*	.034	.0006*	.0002*	MOYENNE
STD.DEV.	.189	1.17		.001*	.004*	.071	.0005*	.0001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.004	.12		L.001	.001*	.004	L.0002	L.0002	25 <sup>e</sup>
MEDIAN 50TH	.006	.16	L.002	L.002	.002	.007	.0004	L.0002	50 <sup>e</sup> MEDIANE
75TH	.014	.53		.003	.003	.016	.0009	L.0002	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

	38301L STRONTIUM EXTRBLE. SR MG/L	42301L MOLYBDENUM EXTRBLE. MO MG/L	47301L SILVER EXTRBLE. AG MG/L	48101L CADMIUM DISSOLVED CD MG/L	48301L CADMIUM EXTRBLE. CD MG/L	51301L ANTIMONY EXTRBLE. SB MG/L	56301L BARIUM EXTRBLE. BA MG/L	80011L MERCURY TOTAL HG UG/L	
SAMPLES(FLAGS)			1(1)		4(4)			9(7)	ECHANTILLONS(IND.)
LOW			L.00		L.001			L.00	MINIMUM
HIGH			L.00		L.001			.00	MAXIMUM
AVERAGE								.00*	MOYENNE
STD.DEV.								.00*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					L.001			L.00	25 <sup>e</sup>
MEDIAN 50TH					L.001			L.00	50 <sup>e</sup> MEDIANE
75TH					L.001			L.00	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02L				CODE DE SECOURS

	82301L LEAD EXTRBLE. PB MG/L	02001L ODOUR THRESHOLD NUMBER TON	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTERABLE MG/L	10551L RESIDUE FIXED FILTERABLE MG/L	
SAMPLES(FLAGS)	8(6)	9(0)	2(0)	2(0)	3(1)	9(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	L.002	2.	0.	0.	L10.	0.	44.	36.	MINIMUM
HIGH	.003	8.	0.	0.	30.	35.	100.	74.	MAXIMUM
AVERAGE	.002*	3.	0.	0.	20.*	10.	60.	48.	MOYENNE
STD.DEV.	.000*	2.	0.	0.	10.*	13.	22.	15.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	2.				2.	48.	39.	25 <sup>e</sup>
MEDIAN 50TH	L.002	2.	0.	0.	20.	3.	50.	41.	50 <sup>e</sup> MEDIANE
75TH	.002*	4.				12.	70.	56.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB BASIN

STATION **01SA07LB0001** LAT **58 D 13M** LONG. **104 D 13M** UTM **13 546000E 6452000 N**  
OCT 03 1972 TO: A MAR 06 1974

WATERBURY LAKE AT CREW CABIN  
SASKATCHEWAN

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301S PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00211L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE CM								
SAMPLES(FLAGS)	0001	3(0)	3(1)	3(0)	3(0)	3(0)	3(0)	3(0)	3(1)	ECHANTILLONS(IND.)
LOW	0060	19.	8.	5.1	5.	.7	5.8	6.5	-3.6	MINIMUM
HIGH		34.	18.	10.0	15.	2.5	8.4	13.0	Q-3.0	MAXIMUM
AVERAGE		24.	13.*	7.5	10.	1.7		9.3		MOYENNE
STD.DEV.		9.	5.*	2.5	5.	.9		3.3		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		19.	Q12.	7.5	10.	1.9	8.1	8.4	-3.4	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0060	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	2(1)	ECHANTILLONS(IND.)
LOW	0001	.4	1.1	1.5	.0	0.	8.	.2	L1.0	MINIMUM
HIGH		.7	2.2	3.0	.9	0.	16.	.8	3.4	MAXIMUM
AVERAGE		.5	1.6	2.4	.4	0.	11.	.6	2.2*	MOYENNE
STD.DEV.		.2	.6	.8	.4	0.	4.	.3	1.7*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		.4	1.4	2.6	.3	0.	10.	.7	2.2*	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										06L CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	06711L CHLORO- PHYLL A MG/L	09105L FLUORIDE DISSOLVED F MG/L	10711P NTA NITRILOTRI ACETIC AC. H3NTA MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0001	2(1)	3(0)	2(1)	3(0)	2(0)	1(0)	3(3)		ECHANTILLONS(IND.)
LOW	0060	L.5	.010	L.005	4.2	5.0	.007	L.05		MINIMUM
HIGH		.7	.120	.010	11.0	5.0	.007	L.05		MAXIMUM
AVERAGE		.6*	.057	.007*	7.0	5.0				MOYENNE
STD.DEV.		.1*	.057	.004*	3.6	.0				ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		.6*	.040	.007*	5.7	5.0		L.05		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values./Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB-BASIN

STATION **01SA07LB0001** LAT. **58 D 13M** LONG. **104 D 13M** UTM **13 546000E 6452000 N**  
OCT 03, 1972 TO/A MAR 06, 1974

WATERBURY LAKE AT CREW CABIN,  
SASKATCHEWAN

	SUBM ID	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23301P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS)	0060		2(0)	3(3)		3(3)	3(1)	3(0)	3(1)	ECHANTILLONS(IND.)
LOW	0001		.02	L.10		L.010	L.01	.09	L.001	MINIMUM
HIGH			.09	L.10		L.010	.02	.57	.005	MAXIMUM
AVERAGE			.06				.01*	.27	.003*	MOYENNE
STD.DEV.			.05				.01*	.26	.002*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH			.06	L.10		L.010	.01	.16	.003	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

	SUBM ID	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	48302P CADMIUM EXTRBLE. CD MG/L	
SAMPLES(FLAGS)	0060	3(1)	2(1)	3(1)	1(0)	3(3)	1(1)	3(3)	3(2)	ECHANTILLONS(IND.)
LOW	0001	L.001	L.001	L.001	.008	L.02	L.05	L.01	L.001	MINIMUM
HIGH		.120	.002	.057	.008	L.02	L.05	L.01	.002	MAXIMUM
AVERAGE		.042*	.001*	.021*					.001*	MOYENNE
STD.DEV.		.068*	.001*	.031*					.001*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		.005	.001*	.005		L.02		L.01	L.001	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

	SUBM ID	51301P ANTIMONY EXTRBLE. SB MG/L	56301P BARIUM EXTRBLE. BA MG/L	80301P MERCURY EXTRBLE. HG MG/L	81301P THALLIUM EXTRBLE. TL MG/L	82302P LEAD EXTRBLE. PB MG/L	18160L AROCOLOR 1254 (PCB'S) UG/L	18161L AROCOLOR 1248 (PCB'S) UG/L	18162L AROCOLOR 1260 (PCB'S) UG/L	
SAMPLES(FLAGS)	0001		3(3)			3(2)	1(1)	1(1)	1(1)	ECHANTILLONS(IND.)
LOW	0060		L.1			L.001	L.024	L.024	L.055	MINIMUM
HIGH			L.1			.007	L.024	L.024	L.055	MAXIMUM
AVERAGE						.003*				MOYENNE
STD.DEV.						.003*				ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH			L.1			L.001				50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB BASIN

STATION 01SA07LD0001 LAT. 57 D 20 M 0 S LONG 107 D 8 M 0 S

UTM 13 371600E 6356200N  
JUN 08 1971 TO/A OCT 18 1973

CREE LAKE AT CABLE BAY SASKATCHEWAN

SUBM ID	USE CM	02041L SPECIFIC CONDUCT	05203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	103015 PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	ECHANTILLONS(IND.)
			MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0001	9(0)	9(3)	9(0)	9(2)	9(0)	2(0)	9(0)	9(3)	ECHANTILLONS(IND.)
LOW	0001	20.	09.	4.4	15.	.2	5.9	6.0	Q-3.9	MINIMUM
HIGH		31.	18.	13.5	20.	2.3	7.9	11.5	-2.4	MAXIMUM
AVERAGE		23.	12.*	7.8	7.*	.9		7.9		MOYENNE
STD.DEV.		4	3.*	2.7	5.*	.7		1.8		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		21	10.	6.5	5.	.5		7.1	Q-3.4	25 <sup>e</sup>
MEDIAN 50TH		22.	11.	6.9	5.	.6	6.9	7.3	-3.2	50 <sup>e</sup> MEDIANE
75TH		24.	12.	7.6	5.	1.4		8.4	-3.1	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

SUBM ID	K MG/L	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	ECHANTILLONS(IND.)
		NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0001	9(0)	9(0)	9(0)	9(0)	9(0)	9(1)	2(1)	ECHANTILLONS(IND.)
LOW	0001	.3	.5	1.7	.0	7.	L.1	L.1.0	MINIMUM
HIGH		1.0	1.5	4.8	.9	14.	1.2	1.5	MAXIMUM
AVERAGE		.5	1.0	2.5	.4	10.	.9*	1.2*	MOYENNE
STD.DEV.		.2	.3	.9	.3	0.	.4*	.4*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.4	.9	2.0	.3	9.	.7		25 <sup>e</sup>
MEDIAN 50TH		.4	1.0	2.4	.4	9.	1.0	1.2*	50 <sup>e</sup> MEDIANE
75TH		5	1.3	2.6	.4	10.	1.2		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

SUBM ID	N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	10711P NTA NITRILOTRI- ACETIC AC. H3NTA	ECHANTILLONS(IND.)
		N MG/L	P MG/L	SiO2 MG/L	C MG/L	MG/L	F MG/L	MG/L	
SAMPLES(FLAGS)	0001	1(0)	8(3)	1(0)	9(0)	6(0)	1(0)	8(8)	ECHANTILLONS(IND.)
LOW	0001	.6	L.001	.006	2.6	3.0	.012	L.05	MINIMUM
HIGH		.6	.060	.006	6.0	6.0	.012	L.05	MAXIMUM
AVERAGE			.025*		3.5	3.8			MOYENNE
STD.DEV.			.025*		1.0	1.3			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			L.001		3.2	3.0		L.05	25 <sup>e</sup>
MEDIAN 50TH			.025		3.4	3.0		L.05	50 <sup>e</sup> MEDIANE
75TH			.045		3.5	5.0		L.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN  
ATHABASCA RIVER SUB-BASIN

STATION **01SA07LD0001** LAT. **57 D 20 M 0 S** LONG. **107 D 8 M 0 S**

UTM **13 371600E 6356200 N**  
OCT 05, 1972 TO/A OCT 18, 1973

CREE LAKE AT CABLE BAY, SASKATCHEWAN

		03301P LITHIUM EXTRBL.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBL.	23301P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	CO MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0060</b>		<b>4(2)</b>	<b>5(5)</b>		<b>5(5)</b>	<b>5(5)</b>	<b>5(4)</b>	<b>4(4)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0001</b>		<b>L.02</b>	<b>L.10</b>		<b>L.010</b>	<b>L.01</b>	<b>L.05</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>.08</b>	<b>L.10</b>		<b>L.010</b>	<b>L.01</b>	<b>.08</b>	<b>L.001</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.03*</b>					<b>.06*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.03*</b>					<b>.01*</b>		<b>ECART-TYPE</b>

<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>L.02</b>	<b>L.10</b>		<b>L.010</b>	<b>L.01</b>	<b>L.05</b>	<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>.02*</b>	<b>L.10</b>		<b>L.010</b>	<b>L.01</b>	<b>L.05</b>	<b>L.001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>.05</b>	<b>L.10</b>		<b>L.010</b>	<b>L.01</b>	<b>L.05</b>	<b>L.001</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

		28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48302P CADMIUM EXTRBL.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0060</b>	<b>5(5)</b>	<b>5(4)</b>	<b>5(2)</b>	<b>3(3)</b>	<b>4(4)</b>	<b>1(1)</b>	<b>5(5)</b>	<b>5(5)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.005</b>	<b>L.02</b>	<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.001</b>	<b>.001</b>	<b>.026</b>	<b>L.005</b>	<b>L.02</b>	<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.001*</b>	<b>.012*</b>						<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.000*</b>	<b>.011*</b>						<b>ECART-TYPE</b>

<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.001</b>	<b>L.001</b>	<b>L.001</b>		<b>L.02</b>		<b>L.01</b>	<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.001</b>	<b>L.001</b>	<b>.013</b>	<b>L.005</b>	<b>L.02</b>		<b>L.01</b>	<b>L.001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.001</b>	<b>L.001</b>	<b>.02</b>		<b>L.02</b>		<b>L.01</b>	<b>L.001</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>

SECONDARY CODE

04P

CODE DE SECOURS

		51301P ANTIMONY EXTRBL.	56301P BARIUM EXTRBL.	80301P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	18160L AROCLO 1254 (PCB'S)	18161L AROCLO 1248 (PCB'S)	18162L AROCLO 1260 (PCB'S)	
	SUBM ID	SB MG/L	BA MG/L	HG MG/L	TL MG/L	PB MG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0060</b>		<b>5(5)</b>			<b>4(4)</b>	<b>1(1)</b>	<b>1(1)</b>	<b>1(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0001</b>		<b>L.1</b>			<b>L.001</b>	<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>L.1</b>			<b>L.001</b>	<b>L.032</b>	<b>L.024</b>	<b>L.055</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>

<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>L.1</b>			<b>L.001</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>L.1</b>			<b>L.001</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>L.1</b>			<b>L.001</b>				<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## ATHABASCA RIVER SUB BASIN

STATION 01SA07MC0001 LAT 59 D 22M 54 S LONG 108 D 52M 51 S

UTM 12 620400E 6584300N  
AUG 10 1972 TO/A MAR 09 1974LAKE ATHABASCA NEAR CRACKINGSTONE  
POINT SASKATCHEWAN

	020411L SPECIFIC CONDUCT.	002031L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	106003L HARDNESS TOTAL CACO3 MG/L	020111L COLOUR APPARENT REL. UNITS	020731L TURBIDITY JTU	103011L PH PH UNITS	101011L ALKALINITY TOTAL CACO3 MG/L	002151L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0060 7(0)	6(0)	7(0)	7(3)	7(0)	7(0)	7(0)	6(0)	ECHANTILLONS(IND.)
LOW	81.	41.	32.7	15.	.3	7.3	23.1	-1.6	MINIMUM
HIGH	118.	64.	48.3	10.	2.8	7.7	42.5	-1.0	MAXIMUM
AVERAGE	94.	48.	37.9	6.*	1.4		32.2		MOYENNE
STD.DEV.	13.	9.	5.9	2.*	1.0		6.7		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	84.	41.	33.0	15.	.6	7.6	28.0	-1.4	25 <sup>e</sup>
MEDIAN 50TH	89.	45.	37.0	5.	1.1	7.6	30.0	-1.4	50 <sup>e</sup> MEDIANE
75TH	104.	54.	42.5	8.	2.8	7.6	37.2	-1.1	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	191031L POTASSIUM DISSOLVED K MG/L	111031L SODIUM DISSOLVED NA MG/L	201011L CALCIUM DISSOLVED CA MG/L	121021L MAGNESIUM DISSOLVED MG MG/L	063011L CARBONATE (CALCD.) CO3 MG/L	062011L BICARBONT. (CALCD.) HCO3 MG/L	172031L CHLORIDE DISSOLVED CL MG/L	163031L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0060 6(0)	7(0)	7(0)		7(0)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW	.9	2.5	8.8		0.	28.	3.3	5.5	MINIMUM
HIGH	1.6	4.8	13.8		0.	52.	5.4	10.0	MAXIMUM
AVERAGE	1.2	3.3	11.10		0.	39.	4.3	7.5	MOYENNE
STD.DEV.	.3	.8	1.87		0.	8.	.7	1.6	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.0	2.6	9.8		0.	34.	3.9	6.2	25 <sup>e</sup>
MEDIAN 50TH	1.2	3.1	11.0		0.	37.	4.2	7.2	50 <sup>e</sup> MEDIANE
75TH	1.5	3.9	13.4		0.	45.	4.7	9.4	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE							06L	04L	CODE DE SECOURS

	070021L NITROGEN TOTAL KJELDAHL N MG/L	071061L NITROGEN DISSOLVED NO3 & NO2 N MG/L	075511L NITROGEN DISSOLVED AMMONIA N MG/L	076511L NITROGEN DISSOLVED N MG/L	079021L NITROGEN PARTICUL N MG/L	151031L PHOSPHORUS TOTAL DISSOLVED P MG/L	152551L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	153631L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	
SAMPLES(FLAGS)	0060 3(2)	7(1)					5(5)	5(4)	ECHANTILLONS(IND.)
LOW	L.5	L.001					L.002	L.001	MINIMUM
HIGH	.5	.090					L.002	.003	MAXIMUM
AVERAGE	.5*	.039*						.001*	MOYENNE
STD.DEV.	.0*	.035*						.001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.010					L.002	L.001	25 <sup>e</sup>
MEDIAN 50TH	L.5	.030					L.002	L.001	50 <sup>e</sup> MEDIANE
75TH		.070					L.002	L.001	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	01L								CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
ATHABASCA RIVER SUB-BASIN

STATION **01SA07MC0001** LAT. **59 D 22M 54 S** LONG. **108 D 52M 51 S**

UTM **12 620400E 6584300 N**  
AUG 10, 1972 TO/A MAR 09, 1974

LAKE ATHABASCA NEAR CRACKINGSTONE  
POINT, SASKATCHEWAN

	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101P OXYGEN DISSOLVED DO	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	O2 MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	
<b>SAMPLES(FLAGS)</b> 0060	3(0)	7(0)	6(0)		5(1)	7(7)		7(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.010	2.5	3.0		L.02	L.10		L.010	<b>MINIMUM</b>
<b>HIGH</b>	.042	4.5	7.0		.06	L.10		L.010	<b>MAXIMUM</b>
<b>AVERAGE</b>	.022	3.3	4.8		.04*				<b>MOYENNE</b>
<b>STD.DEV.</b>	.018	.7	1.5		.02*				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		2.7	4.0		.03	L.10		L.010	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.013	3.3	4.5		.03	L.10		L.010	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		3.8	6.0		.06	L.10		L.010	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	13L								CODE DE SECOURS

	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED FE	26304P IRON EXTRBLE. FE	27302P COBALT EXTRBLE. CO	28302P NICKEL EXTRBLE. NI	29305P COPPER EXTRBLE. CU	30305P ZINC EXTRBLE. ZN	33103L ARSENIC DISSOLVED AS	
SUBM ID	MN MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0060	7(7)		7(7)	7(6)	7(5)	7(4)	7(1)	4(2)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.01		L.05	L.001	L.001	L.001	L.001	L.005	<b>MINIMUM</b>
<b>HIGH</b>	L.01		L.05	.001	.004	.003	.02	.010	<b>MAXIMUM</b>
<b>AVERAGE</b>				.001*	.002*	.002*	.007*	.0062*	<b>MOYENNE</b>
<b>STD.DEV.</b>				.000*	.001*	.001*	.007*	.0025*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.01		L.05	L.001	L.001	L.001	.002	L.0050	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.01		L.05	L.001	L.001	L.001	.003	.0050*	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.01		L.05	L.001	.002	.003	.009	.0075	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	04L			02L	02L		04P		CODE DE SECOURS

	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBLE. SR	42301P MOLYBDENUM EXTRBLE. MO	47301P SILVER EXTRBLE. AG	48302P CADMIUM EXTRBLE. CD	56301P BARIUM EXTRBLE. BA	80311P MERCURY EXTRBLE. HG	82302P LEAD EXTRBLE. PB	
SUBM ID	SE MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0060		7(1)	2(2)	7(7)	7(5)	6(6)	7(4)	7(6)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		L.02	L.05	L.01	L.001	L.1	L.05	L.001	<b>MINIMUM</b>
<b>HIGH</b>		.07	L.05	L.01	.008	L.1	.19	L.05	<b>MAXIMUM</b>
<b>AVERAGE</b>		.06*			.002*		.08*	.008*	<b>MOYENNE</b>
<b>STD.DEV.</b>		.02*			.003*		.05*	.018*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.05		L.01	L.001	L.1	L.05	L.001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.06	L.05	L.01	L.001	L.1	L.05	L.001	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.07		L.01	.002	L.1	.08	.002	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE				02L			03P		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## ATHABASCA RIVER SUB BASIN

STATION 01SA07MC0001 LAT. 59 D 22M 54 S LONG. 108 D 52M 51 S

UTM 12 620400E 6584300 N  
AUG 10 1972 TO/A AUG 10 1972LAKE ATHABASCA NEAR CRACKINGSTONE  
POINT SASKATCHEWAN

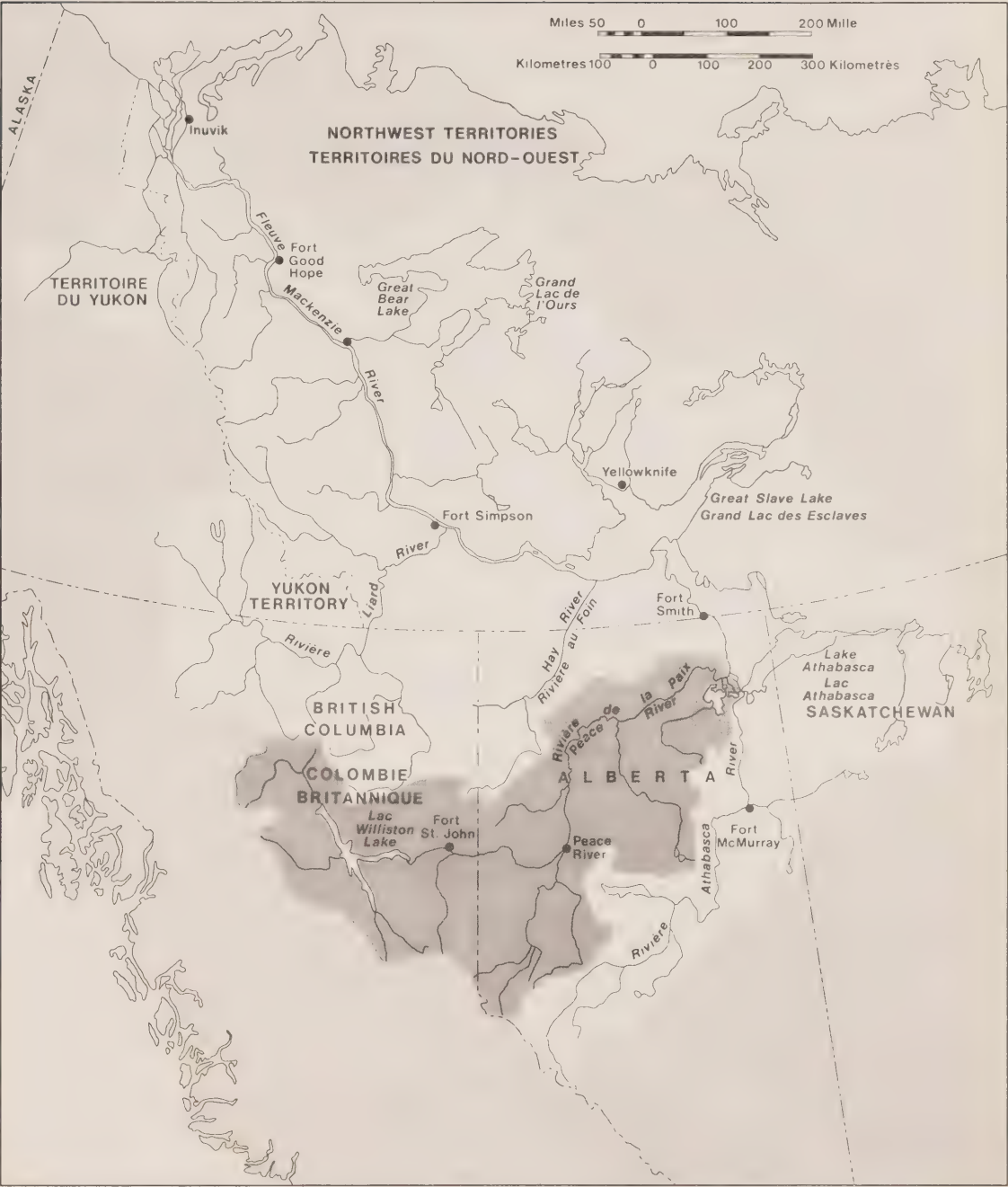
	18130L ALDRIN	18070L GAMMA- BHC (LINDANE)	18530L DICAMBA	18150L HEOD (DIELDRIN)	18555L DICHLORPROP	18000L P,P-DDT	18010L P,P-TDE	18000L P,P-DDD	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0060	1(1)	1(1)		1(1)	1(1)	1(1)	1(1)	1(1)	ECHANTILLONS(IND.)
LOW	L.001	L.001		L.002	L.002	L.004	L.002	L.001	MINIMUM
HIGH	L.001	L.001		L.002	L.002	L.004	L.002	L.001	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	18030L P,P- METHOXY- CHLOR	18500L 2,4-D	18510L 2,4,5-T	18160L AROCLOR 1254 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0060	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	ECHANTILLONS(IND.)
LOW	L.001	L.003	L.001	L.002	L.012	L.004	L.001	L.032	MINIMUM
HIGH	L.001	L.003	L.001	L.002	L.012	L.004	L.001	L.032	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18161L AROCLOR 1248 (PCB'S)	18162L AROCLOR 1260 (PCB'S)	06711L CHLORO- PHYLL A	06713L CHLORO- PHYLL C	08401L OXYGEN CONSUMED	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
SUBM ID	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0060	1(1)	1(1)	1(0)			7(1)			ECHANTILLONS(IND.)
LOW	L.024	L.055	.003			L.05			MINIMUM
HIGH	L.024	L.055	.003			.10			MAXIMUM
AVERAGE						.07*			MOYENNE
STD.DEV.						.02*			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH						.06			25 <sup>e</sup>
MEDIAN 50TH						.07			50 <sup>e</sup> MEDIANE
75TH						.08			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives







# WATER QUALITY STATIONS : ALPHABETICAL INDEX

## PEACE RIVER

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
AHDATAY CREEK AT INLET TO TCHENTLO LAKE, BRITISH COLUMBIA (EQUIS NO. 0400697)	00CB07ED0008	55	13	0	124	51	0	606
AIRLINE CREEK AT INLET TO TCHENTLO LAKE, BRITISH COLUMBIA (EQUIS NO. 0400694)	00CB07ED0007	55	11	0	125	4	0	604
ALBERT CREEK DRAINING TO NATION RIVER BETWEEN INDATA AND TCHENTLO LAKES BRITISH COLUMBIA (EQUIS NO. 0400689)	00CB07ED0004	55	17	0	125	14	0	598
BEAR RIVER SOUTH OF FORT VERMILION, ALBERTA	00AL07JD0003	58	15		115	49		543
BEATTON RIVER ONE HALF MILE ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 0400145)	00CB07FC0001	55	6	30	120	22	30	697
BEATTON RIVER 9.92 KM. ENE OF FORT ST JOHN. HIGHWAY BRIDGE. BRITISH COLUMBIA.	00BC07FC0002	56	16	42	120	42	6	582
BELCOURT CREEK ABOVE WAPITI RIVER, BRITISH COLUMBIA (EQUIS NO. 1177737)	00CB07GC0006	54	41	0	120	5	0	760
BIRCH RIVER BELOW ALICE CREEK, ALBERTA	00AL07KE0001 97900S001	58	18	30	113	4	0	551
BULLMOOSE CREEK IN MAIN CHANNEL AT THE 200 LINE BRIDGE, BRITISH COLUMBIA (EQUIS NO. 1177708)	00CB07FB0016	55	13	0	121	15	0	665
BURNT RIVER NEAR CONFLUENCE WITH SUKUNKA RIVER, BRITISH COLUMBIA (EQUIS NO. 1177720)	00CB07FB0024	55	20	0	121	44	0	681
CARIBOU RIVER EAST OF ROCKY LANE, ALBERTA	00AL07JF0003	58	30		115	54		547
CENTURION CREEK ABOVE CONFLUENCE WITH PINE RIVER, BRITISH COLUMBIA (EQUIS NO 1177745)	00CB07FB0030	55	40	0	121	38	0	693
CENTURION CREEK UPSTREAM FROM CHETWYND VILLAGE, BRITISH COLUMBIA (EQUIS NO. 1177747)	00CB07FB0031	55	43	0	121	35	0	695
CHAMBERLAIN CREEK AT 100 LINE ROAD CROSSING, BRITISH COLUMBIA (EQUIS NO. 1177717)	00CB07FB0022	55	14	0	121	39	0	677
CHARLIE LAKE AT MIDDLE OF LAKE NEAR NORTH END, NEAR FORT ST JOHN BRITISH COLUMBIA (EQUIS NO. 0400394)	01CB07FC0008	56	20	40	121	0	30	796

# PEACE RIVER

# WATER QUALITY STATIONS : ALPHABETICAL INDEX

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
CHARLIE LAKE AT NORTH END OF LAKE, ONE HALF MILE FROM INLET, FORT ST JOHN, BRITISH COLUMBIA (EQUIS NO. 0400395)	01CB07FC0009	56	21	50	121	2	15	798
CHARLIE LAKE AT SOUTH END OF LAKE 150 FT FROM EAST SHORE NEAR FORT ST JOHN BRITISH COLUMBIA (EQUIS NO. 0400390)	01CB07FC0004	56	18	50	120	57	50	788
CHARLIE LAKE AT SOUTH END OF LAKE 150 FT FROM WEST SHORE NEAR FORT ST JOHN BRITISH COLUMBIA (EQUIS NO. 0400389)	01CB07FC0003	56	18	35	120	58	40	786
CHARLIE LAKE NEAR MIDDLE OF LAKE, FORT ST JOHN, BRITISH COLUMBIA (EQUIS NO. 0400391)	01CB07FC0005	56	20	0	120	59	15	790
CHARLIE LAKE NEAR OUTLET, NEAR FORT ST JOHN, BRITISH COLUMBIA (EQUIS NO. 0400388)	01CB07FC0002	56	17	30	120	57	30	784
CHARLIE LAKE OUTLET AT SOUTH END OF CHARLIE LAKE NEAR FORT ST. JOHN BRITISH COLUMBIA (EQUIS NO. 0400396)	00CB07FC0002	56	25	20	121	3	45	699
CHARLIE LAKE TRIBUTARY AT SOUTH SIDE OF STODDART CR BRIDGE, MILE 64 ROAD BRITISH COLUMBIA (EQUIS NO. 0400397)	00CB07FC0003	56	16	15	120	57	5	701
CHARLIE LAKE 150 FT FROM EAST SHORE, FORT ST JOHN, BRITISH COLUMBIA (EQUIS NO. 0400392)	01CB07FC0006	56	19	55	120	57	35	792
CHARLIE LAKE 150 FT FROM WEST SHORE, FORT ST JOHN, BRITISH COLUMBIA (EQUIS NO. 0400393)	01CB07FC0007	56	20	10	121	0	10	794
CHUCHI LAKE AT EASTERN END OF MAIN REACH, BRITISH COLUMBIA (EQUIS NO. 0400703)	01CB07ED0007	55	12	0	124	28	0	778
CHUCHI LAKE AT MIDDLE NEAR SMALL ISLAND AT WESTERN END BRITISH COLUMBIA (EQUIS NO. 0400701)	01CB07ED0005	55	10	0	124	39	0	774
CHUCHI LAKE AT MIDDLE OF MAIN REACH, BRITISH COLUMBIA (EQUIS NO. 0400702)	01CB07ED0006	55	10	0	124	33	0	776
CHUCHI LAKE EASTERN BAY NEAR ISLAND, BRITISH COLUMBIA (EQUIS NO. 0400705)	01CB07ED0008	55	9	0	124	22	0	780
CLEAR RIVER NEAR BEAR CANYON, ALBERTA 979005009	00AL07FD0004	56	18	21	119	40	51	496
DAWSON CREEK AT ALASKA HWY MI. 4, 100 FT D/S OF CONFLUENCE WITH UNNAMED CR. BRITISH COLUMBIA (EQUIS NO. 0410031)	00CB07FD0011	55	47	10	120	19	15	722

# WATER QUALITY STATIONS : ALPHABETICAL INDEX

# PEACE RIVER

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
DAWSON CREEK AT DAWSON CREEK REFUSE SITE, BRITISH COLUMBIA (EQUIS NO. 0410051)	00CB07FD0023	55	45	0	120	15	0	746
DAWSON CREEK AT HART HWY, DOWNSTREAM FROM END OF CULVERT, BRITISH COLUMBIA (EQUIS NO. 0410032)	00CB07FD0012	55	46	0	120	15	55	724
DAWSON CREEK AT HWY 2 AT DOWNSTREAM END OF CULVERT, BRITISH COLUMBIA (EQUIS NO. 0410034)	00CB07FD0014	55	45	10	120	13	30	728
DAWSON CREEK 100 YDS DOWNSTREAM OF DAWSON CREEK REFUSE SITE BRITISH COLUMBIA (EQUIS NO. 0410038)	00CB07FD0018	55	44	40	120	12	20	736
DAWSON CREEK 100 YDS UPSTREAM OF DAWSON CREEK REFUSE SITE BRITISH COLUMBIA (EQUIS NO. 0410050)	00CB07FD0022	55	45	0	120	15	0	744
DAWSON CREEK 150 FT DOWNSTREAM OF DISCHARGE AE 4156, LAWRENCE BRITISH COLUMBIA (EQUIS NO. 0410037)	00CB07FD0017	55	44	45	120	12	25	734
DAWSON CREEK 150 YDS UPSTREAM OF DISCHARGE AE 4156, LAWRENCE BRITISH COLUMBIA (EQUIS NO. 0410035)	00CB07FD0015	55	44	55	120	12	40	730
DAWSON CREEK 20 FT DOWNSTREAM OF DISCHARGE AE 4156, LAWRENCE BRITISH COLUMBIA (EQUIS NO. 0410036)	00CB07FD0016	55	44	50	120	12	35	732
DAWSON CREEK 25 MILES DOWNSTREAM FROM SEWAGE LAGOON DISCHARGE INTO DAWSON CR BRITISH COLUMBIA (EQUIS NO. 0410052)	00CB07FD0024	55	45	0	120	10	0	748
FIVE CABIN CREEK NEAR CONFLUENCE WITH KINUSED CREEK AND FALLS ROAD CROSSING BRITISH COLUMBIA (EQUIS NO. 1177726)	00CB07FB0028	54	47	0	120	58	0	689
FLATBED CREEK APPROX 0.8 KM ABOVE CONFLUENCE WITH MURRAY RIVER BRITISH COLUMBIA (EQUIS NO. 1177712)	00CB07FB0019	55	7	0	121	1	0	671
HEART RIVER NEAR NAMPA, ALBERTA 97900S003	00AL07HA0007	56	3	18	117	7	45	527
HINES CREEK NEAR FAIRVIEW, ALBERTA 97900S008	00AL07FD0005	56	4	6	118	39	36	498
HOTCHKISS RIVER AT HOTCHKISS, ALBERTA	00AL07HC0007	59	3		116	34		533
INDATA LAKE AT CENTRE OF LAKE, BRITISH COLUMBIA (EQUIS NO. 0400686)	01CB07ED0001	55	21	30	125	16	0	766



# PEACE RIVER

# WATER QUALITY STATIONS : ALPHABETICAL INDEX

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
KEG RIVER AT KEG RIVER CABINS. ALBERTA	00AL07HF0002 97900S002	57	44	39	117	37	21	537
KINUSED CREEK BELOW FIVE CABIN CREEK AT KINUSED FALLS ROAD CROSSING. BRITISH COLUMBIA (EQUIS NO. 1177725)	00CB07FB0027	54	48	0	121	4	0	687
KINUSED CREEK UPSTREAM FROM FIVE CABIN CREEK, BRITISH COLUMBIA (EQUIS NO. 1177728)	00CB07FB0029	54	48	0	120	44	0	691
KISKATINAW RIVER AT ALASKA HWY BRIDGE. BRITISH COLUMBIA (EQUIS NO. 0400544)	00CB07FD0009	55	57	40	120	33	25	718
KISKATINAW RIVER NEAR HART HWY BRIDGE AT ARRAS, BRITISH COLUMBIA (EQUIS NO. 0400545)	00CB07FD0010	55	44	20	120	33	10	720
KISKATINAW RIVER ONE HALF MILE ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 0400149)	00CB07FD0007	56	5	0	120	9	10	715
KISKATINAW RIVER, ALASKA HWY BRIDGE. NEAR FARMINGTON. BRITISH COLUMBIA	00BC07FD0007	55	57	24	120	33	51	590
KLAWLI RIVER AT INLET TO CHUCHI LAKE, BRITISH COLUMBIA (EQUIS NO. 0400700)	00CB07ED0011	55	12	30	124	45	0	612
KSITUAN RIVER WEST OF SPIRIT RIVER, ALBERTA	00AL07FD0003	55	50	0	119	10	12	491
LITTLE SMOKY RIVER AT HWY 43, LITTLE SMOKY, ALBERTA	00AL07GG0001 97900S002	54	44	24	117	10	45	510
LITTLE SMOKY RIVER SOUTH OF GUY, ALBERTA	00AL07GH0003 97900S002	55	22	42	116	55	36	514
MEIKLE CREEK AT 200 LINE ROAD CROSSING BRITISH COLUMBIA (EQUIS NO. 1177723)	00CB07FB0025	55	17	0	121	23	0	683
MOBERLY RIVER ABOVE INLET TO MOBERLY LAKE, BRITISH COLUMBIA (EQUIS NO. 0400567)	00CB07FB0009	55	48	0	121	54	0	651
MOBERLY RIVER AT HWY 29 BRIDGE AT OUTLET OF MOBERLY LAKE, BRITISH COLUMBIA	00BC07FB0004	55	48	0	121	52	0	580
MOBERLY RIVER ONE HALF MILE ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 0400302)	00CB07FB0003	56	11	10	120	57	5	639

# WATER QUALITY STATIONS : ALPHABETICAL INDEX

# PEACE RIVER

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
MONTAGNEUSE RIVER NEAR HINES CREEK, ALBERTA	00AL07FD0006 97900S012	56	23	54	118	42	45	500
MURRAY RIVER AT SECOND MAJOR MEANDER APPROX TWO MILES BELOW WOLVERINE RIVER BRITISH COLUMBIA (EQUIS NO. 1177701)	00CB07FB0010	55	10	0	121	1	0	653
MURRAY RIVER BELOW COLDSTREAM CREEK AT EAST PINE, BRITISH COLUMBIA (EQUIS NO. 0400552)	00CB07FB0004	55	42	20	121	6	40	641
MURRAY RIVER EAST BANK, 100 METRES ABOVE CONFLUENCE WITH PINE RIVER BRITISH COLUMBIA (EQUIS NO. 1177702)	00CB07FB0011	55	43	0	121	13	0	655
MURRAY RIVER HEADWATERS BELOW IMPERIAL CREEK AT KINUSED FALLS ROAD BRIDGE BRITISH COLUMBIA (EQUIS NO. 1177724)	00CB07FB0026	54	46	0	121	13	0	685
NARRAWAY RIVER NEAR B.C.-ALBERTA BORDER, BRITISH COLUMBIA (EQUIS NO. 1177735)	00CB07GC0004	54	21	0	120	0	0	756
NARRAWAY RIVER U/S FROM PROPOSED COAL DEVELOPMENT SITE, BRITISH COLUMBIA (EQUIS NO. 1177734)	00CB07GC0003	54	15	0	120	15	0	754
NATION RIVER AT INLET TO CHUCHI LAKE, BRITISH COLUMBIA (EQUIS NO. 0400699)	00CB07ED0010	55	12	0	124	44	30	610
NATION RIVER AT INLET TO INDATA LAKE, BRITISH COLUMBIA (EQUIS NO. 0400685)	00CB07ED0001	55	23	0	125	17	30	592
NATION RIVER AT INLET TO TCHENTLO LAKE, BRITISH COLUMBIA (EQUIS NO. 0400690)	00CB07ED0005	55	17	0	125	13	0	600
NATION RIVER AT OUTLET FROM CHUCHI LAKE, BRITISH COLUMBIA (EQUIS NO. 0400706)	00CB07ED0013	55	12	0	124	23	30	616
NATION RIVER AT OUTLET FROM INDATA LAKE, BRITISH COLUMBIA (EQUIS NO. 0400687)	00CB07ED0002	55	18	30	125	14	0	594
NATION RIVER AT TCHENTLO LAKE OUTLET, BRITISH COLUMBIA (EQUIS NO. 0400698)	00CB07ED0009	55	12	0	124	47	0	608
NOTIKEWIN RIVER AT MANNING, ALBERTA	00AL07HC0006 97900S001	56	55	21	117	37	39	531
PACIFIC PETROLEUM, RAW WATER FROM PUMP BEARING COOLING WATER AT TAYLOR, BRITISH COLUMBIA (EQUIS NO. 0400157)	00CB07FD0008	56	8	35	120	41	0	717

# PEACE RIVER

# WATER QUALITY STATIONS : ALPHABETICAL INDEX

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
PARSNIP RIVER AT HWY 97 BRIDGE, WINDY POINT, BRITISH COLUMBIA	00BC07EE0001	55	8	0	122	58	0	571
PEACE RIVER - ABOVE PEACE RIVER EAST BANK	00AT07HA0002 97910S2041	56	13	28	117	17	0	569
PEACE RIVER ABOVE PEACE RIVER	00AT07HA0001 97910S2040	56	13	27	117	18	0	567
PEACE RIVER AT CLAYHURST FERRY NEAR B.C. ALTA. BORDER, BRITISH COLUMBIA	00BC07FD0005	56	7	45	120	3	20	587
PEACE RIVER AT DUNVEGAN	00AT07FD0001 97910S2030	55	55	13	118	36	20	553
PEACE RIVER AT FERRY CROSSING, HUDSON HOPE, BRITISH COLUMBIA (EQUIS NO. 0400169)	00CB07EF0001	56	1	10	121	53	55	622
PEACE RIVER AT FORT VERMILION, ALBERTA	00AL07HF0001 97900S001	58	23	15	116	2	6	535
PEACE RIVER AT HWY 2, DUNVEGAN, ALBERTA	00AL07FD0002 97900S003	55	55	18	118	36	33	489
PEACE RIVER AT HWY 29 BRIDGE, HUDSON HOPE, BRITISH COLUMBIA	00BC07EF0001 97900S001	56	1	39	121	53	57	573
PEACE RIVER AT HWY 97 BRIDGE, TAYLOR, BRITISH COLUMBIA	00BC07FD0002	56	10	0	120	41	30	584
PEACE RIVER AT PEACE POINT, ALBERTA	00AL07KC0001 97900S001	59	6	51	112	25	36	549
PEACE RIVER AT PEACE RIVER, ALBERTA	00AL07HA0001 97900S001	56	14	42	117	18	45	523
PEACE RIVER BACKWATER ONE HALF MILE ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 0400137)	00CB07FB0001	56	11	50	120	56	30	635
PEACE RIVER FOUR MILES DOWNSTREAM FROM ALASKA HWY, BRITISH COLUMBIA (EQUIS NO. 0400142)	00CB07FD0001	56	7	40	120	34	0	703
PEACE RIVER FOUR MILES DOWNSTREAM FROM ALASKA HWY, BRITISH COLUMBIA (EQUIS NO. 0400143)	00CB07FD0002	56	7	35	120	34	0	705
PEACE RIVER FOUR MILES DOWNSTREAM FROM ALASKA HWY, BRITISH COLUMBIA (EQUIS NO. 0400144)	00CB07FD0003	56	7	30	120	34	0	707

# WATER QUALITY STATIONS : ALPHABETICAL INDEX

# PEACE RIVER

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
PEACE RIVER NEAR TAYLOR. RAILWAY BRIDGE. BRITISH COLUMBIA.	00BC07FA0003	56	9	42	120	45	9	576
PEACE RIVER TWO MILES UPSTREAM FROM FORT ST. JOHN SANITARY DISCHARGE SITE BRITISH COLUMBIA (EQUIS NO. 0400138)	00CB07FA0004	56	10	0	120	31	45	629
PEACE RIVER TWO MILES UPSTREAM FROM FORT ST. JOHN SANITARY DISCHARGE SITE BRITISH COLUMBIA (EQUIS NO. 0400136)	00CB07FA0003	56	12	35	120	51	20	627
PEACE RIVER TWO MILES UPSTREAM FROM FORT ST. JOHN SANITARY DISCHARGE SITE BRITISH COLUMBIA (EQUIS NO. 0400135)	00CB07FA0002	56	12	30	120	51	20	625
PEACE RIVER TWO MILES UPSTREAM FROM FORT ST. JOHN SANITARY DISCHARGE SITE BRITISH COLUMBIA (EQUIS NO. 0400134)	00CB07FA0001	56	12	35	120	51	20	623
PEACE RIVER 100 YDS ABOVE RAILWAY BRIDGE NEAR FORT ST. JOHN BRITISH COLUMBIA (EQUIS NO. 0400140)	00CB07FA0006	56	9	55	120	49	40	633
PEACE RIVER 100 YDS ABOVE RAILWAY BRIDGE NEAR FORT ST. JOHN BRITISH COLUMBIA (EQUIS NO. 0400139)	00CB07FA0005	56	10	0	120	45	40	631
PEACE RIVER 6 MILES DOWNSTREAM FROM BEATTON RIVER, BRITISH COLUMBIA (EQUIS NO. 0400148)	00CB07FD0006	56	6	20	120	14	0	713
PEACE RIVER 6 MILES DOWNSTREAM FROM BEATTON RIVER, BRITISH COLUMBIA (EQUIS NO. 0400147)	00CB07FD0005	56	6	25	120	14	0	711
PEACE RIVER 6 MILES DOWNSTREAM FROM BEATTON RIVER, BRITISH COLUMBIA (EQUIS NO. 0400146)	00CB07FD0004	56	6	30	120	14	0	709
PINE RIVER AT EAST PINE, UPSTREAM OF CONFLUENCE WITH MURRAY RIVER BRITISH COLUMBIA (EQUIS NO. 0400560)	00CB07FB0006	55	43	30	121	14	30	645
PINE RIVER AT TWIDWELL BEND, OPPOSITE CONFLUENCE WITH SUKUNKA RIVER BRITISH COLUMBIA (EQUIS NO. 0400561)	00CB07FB0007	55	36	30	121	31	50	647
PINE RIVER BELOW HART HWY BRIDGE NEAR CONFLUENCE WITH HASLER CREEK BRITISH COLUMBIA (EQUIS NO. 0400562)	00CB07FB0008	55	36	30	121	59	0	649
PINE RIVER EAST BANK AT PEACE ISLAND PARK ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 1177703)	00CB07FB0012	56	7	0	120	43	0	657
PINE RIVER NEAR MOUTH. 3.2 KM. SOUTH OF TAYLOR. BRITISH COLUMBIA.	00BC07FB0001	56	8	12	120	42	42	578

# PEACE RIVER

# WATER QUALITY STATIONS : ALPHABETICAL INDEX

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
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PINE RIVER NORTH BANK AT CHETWYND PUMP HOUSE ABOUT 50 M ABOVE CENTURION CREEK BRITISH COLUMBIA (EQUIS NO. 1177704)	00CB07FB0013	55	41	0	121	39	0	659
PINE RIVER ONE HALF MILE ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 0400141)	00CB07FB0002	56	8	20	120	42	10	637
PONTON RIVER AT ROCKY LANE, ALBERTA	00AL07JF0001	58	32		116	22		545
POUCE COUPE RIVER AT SPIRIT RIVER ROAD BRIDGE, BRITISH COLUMBIA (EQUIS NO. 0410042)	00CB07FD0021	55	42	50	120	6	45	742
POUCE COUPE RIVER DOWNSTREAM OF CONFLUENCE WITH DAWSON CREEK BRITISH COLUMBIA (EQUIS NO. 0410041)	00CB07FD0020	55	45	10	120	6	20	740
POUCE COUPE RIVER ONE HALF MILE UPSTREAM FROM DAWSON CREEK BRITISH COLUMBIA (EQUIS NO. 0410040)	00CB07FD0019	55	44	30	120	7	5	738
PURVIS CREEK AT INLET TO PURVIS LAKE, BRITISH COLUMBIA (EQUIS NO. 0400691)	00CB07ED0006	55	13	0	125	17	0	602
QUALITY CREEK AT WOOD PRESERVERS CAMP, BRITISH COLUMBIA (EQUIS NO. 1177711)	00CB07FB0018	55	10	0	120	56	0	669
RED DEER CREEK ABOVE WAPITI RIVER, BRITISH COLUMBIA (EQUIS NO. 1177736)	00CB07GC0005	54	41	0	120	15	0	758
ROTTACKER CREEK AT CONFLUENCE WITH NATION RIVER NEAR INDATA LAKE OUTLET BRITISH COLUMBIA (EQUIS NO. 0400688)	00CB07ED0003	55	18	30	125	14	0	596
SAXON CREEK BELOW PROPOSED COAL DEVELOPMENT SITE, BRITISH COLUMBIA (EQUIS NO. 1177739)	00CB07GC0008	54	16	0	120	2	0	764
SAXON CREEK NEAR MOUTH, BRITISH COLUMBIA (EQUIS NO. 1177738)	00CB07GC0007	54	21	0	120	1	0	762
SIMONETTE RIVER NEAR GOODWIN, ALBERTA	00AL07GF0008 97900S001	55	8	30	118	10	30	508
SKEETER CREEK AT 100 LINE ROAD CROSSING, BRITISH COLUMBIA (EQUIS NO. 1177718)	00CB07FB0023	55	15	0	121	39	0	679
SMOKY RIVER - DOWNSTREAM OF MCINTYRE PORCUPINE MINES	00AT07GA0002 97910S2020							558



# WATER QUALITY STATIONS : ALPHABETICAL INDEX

## PEACE RIVER

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
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SMOKY RIVER - UPSTREAM OF MCINTYRE PORCUPINE MINES	00AT07GA0001 97910S2010	54	51	0	119	11	0	556
SMOKY RIVER ABOVE HELLS CREEK, ALBERTA	00AL07GA0001 97900S001	53	57		119	9		502
SMOKY RIVER AT GOODWIN	00AT07GJ0001 97910S2020	55	14	12	118	15	27	562
SMOKY RIVER AT WATINO HWY49 BRIDGE	00AT07GJ0002 97910S2060	55	42	57	117	37	21	564
SMOKY RIVER AT WATINO, ALBERTA	00AL07GJ0001 97900S001	55	42	57	117	37	18	516
SMOKY RIVER EAST OF BEZANSON, ALBERTA	00AL07GJ0003 97900S002	55	14	12	118	15	30	521
SMOKY RIVER NEAR GRANDE CACHE, ALBERTA	00AL07GA0002	53	53	39	119	19	18	504
SOUTH DAWSON CREEK AT 17 AVE, DAWSON CREEK, BRITISH COLUMBIA (EQUIS NO. 0410033)	00CB07FD0013	55	45	20	120	15	55	726
SUKUNKA RIVER ABOVE CONFLUENCE WITH PINE RIVER NEAR TWIDWELL BEND BRITISH COLUMBIA (EQUIS NO. 0400556)	00CB07FB0005	55	35	30	121	36	0	643
SUKUNKA RIVER ABOVE WINDFALL CREEK AT 100 MILE LINE BRIDGE BRITISH COLUMBIA (EQUIS NO. 1177714)	00CB07FB0020	55	8	0	121	54	0	673
SUKUNKA RIVER EAST BANK APPROX 10 KM BELOW SKEETER CR, 5 KM ABOVE BURNT R. BRITISH COLUMBIA (EQUIS NO. 1177706)	00CB07FB0015	55	19	0	121	43	0	663
SUKUNKA RIVER EAST BANK APPROX 500 M ABOVE CONFLUENCE WITH PINE RIVER BRITISH COLUMBIA (EQUIS NO. 1177705)	00CB07FB0014	55	37	0	121	35	0	661
SUMMIT LAKE TRIB. D/S FROM SUMMIT LAKE DUMP SITE NEAR HWY 97 NORTH BRITISH COLUMBIA (EQUIS NO. 0400740)	00CB07EE0001	55	17	35	122	37	10	618
SUMMIT LAKE TRIBUTARY, UPSTREAM FROM SUMMIT LAKE DUMP SITE AT ROAD CULVERT BRITISH COLUMBIA (EQUIS NO. 0400741)	00CB07EE0002	54	17	35	122	37	10	620
TCHENTLO LAKE AT MIDDLE NEAR ISLAND, BRITISH COLUMBIA (EQUIS NO. 0400695)	01CB07ED0003	55	12	0	125	1	0	770

## PEACE RIVER

## WATER QUALITY STATIONS : ALPHABETICAL INDEX

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
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TCHENTLO LAKE AT WESTERN BEND NEAR MIDDLE OF LAKE, BRITISH COLUMBIA (EQUIS NO. 0400693)	01CB07ED0002	55	12	0	125	10	0	768
TCHENTLO LAKE EASTERN BEND AT MIDDLE OF LAKE, BRITISH COLUMBIA (EQUIS NO. 0400696)	01CB07ED0004	55	13	0	124	52	30	772
WABASCA RIVER AT WADLIN LAKE ROAD, ALBERTA	00AL07JD0001 97900S002	58	18		115	23		541
WAPITI RIVER - GROVEDALE	00AT07GE0001 97910S2010	55	4	21	118	48	9	560
WAPITI RIVER AT HWY 40 SOUTH OF GRANDE PRAIRIE, ALBERTA	00AL07GE0001 97900S001	55	4	3	118	48	15	506
WAPITI RIVER NEAR B.C.-ALBERTA BORDER, BRITISH COLUMBIA (EQUIS NO. 1177733)	00CB07GC0002	54	44	0	120	0	0	752
WAPITI RIVER U/S FROM PROPOSED COAL DEVELOPMENT SITE, BRITISH COLUMBIA (EQUIS NO. 1177732)	00CB07GC0001	54	41	0	120	35	0	750
WASKAHIGAN RIVER AT HWY 43 BRIDGE 0.1 MILE ABOVE LITTLE SMOKY RIVER, ALBERTA	00AL07GG0004	54	45	9	117	12	9	512
WHITEMUD RIVER NEAR DIXONVILLE, ALBERTA	00AL07HA0008 97900S005	56	30	39	117	39	33	529
WILLISTON LAKE AT MACKENZIE EFFLUENT DISCHARGE, BRITISH COLUMBIA (EQUIS NO. 0400651)	01CB07EE0001	55	19	0	124	9	0	782
WINDFALL CREEK AT 100 LINE ROAD CROSSING, BRITISH COLUMBIA (EQUIS NO. 1177716)	00CB07FB0021	55	10	0	121	47	0	675
WITCH CREEK AT INLET TO CHUCHI LAKE, BRITISH COLUMBIA (EQUIS NO. 0400704)	00CB07ED0012	55	9	0	124	23	30	614
WOLVERINE RIVER BELOW BULLMOOSE CREEK, BRITISH COLUMBIA (EQUIS NO. 1177710)	00CB07FB0017	55	8	0	121	3	0	667

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07FD0002** LAT. **55 D 55M 18 S** LONG. **118 D 36M 33 S**UTM **11 399500E 6198300 N**  
AUG 19, 1969 TO/À DEC 18, 1979PEACE RIVER AT HWY 2, DUNVEGAN,  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM									
<b>SAMPLES(FLAGS)</b>	0001	30(0)	25(1)	5(0)	29(1)	30(0)	30(0)	25(0)	25(1)	ECHANTILLONS(IND.)
<b>LOW</b>	0103	177.	89.	95.0	L5.	1.	7.6	72.	Q -.5	MINIMUM
<b>HIGH</b>	0479	290.	165.	148.	500.	800.	8.3	111.	.4	MAXIMUM
<b>AVERAGE</b>	0056	214.	111.*	123.8	50.*	78.5		87.6		MOYENNE
<b>STD.DEV.</b>	0003	29.	19.*	22.0	93.*	149.9		10.0		ECART-TYPE
<b>PERCNT:10TH</b>		184.	97.		5.	2.0	7.7	77.	-.3	10 <sup>e</sup> PERCNT
<b>25TH</b>		196.	99.	107.	10.	6.8	7.9	79.	-.2	25 <sup>e</sup>
<b>MEDIAN 50TH</b>		208.	106.	133.	20.	19.0	8.1	87.0	.0	50 <sup>e</sup> MEDIANE
<b>75TH</b>		224.	119.	136.	50.	100.	8.2	94.	.1	75 <sup>e</sup>
<b>90TH</b>		259.	147.		100.	175.0	8.3	100.	.3	90 <sup>e</sup>
SECONDARY CODE								06L	CODE DE SECOURS	

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	0479	30(1)	30(0)	30(0)	25(0)	23(0)	23(0)	30(0)	30(0)	ECHANTILLONS(IND.)
<b>LOW</b>	0001	L.1	1.0	27.7	5.9	0.	88.	9.0	.5	MINIMUM
<b>HIGH</b>	0103	3.5	8.3	44.0	8.3	0.	123.	45.0	1.2	MAXIMUM
<b>AVERAGE</b>	0003	.7*	2.4	31.67	6.8	0.	105.	14.7	.7	MOYENNE
<b>STD.DEV.</b>	0056	.6*	1.5	3.88	.6	0.	11.	8.7	.2	ECART-TYPE
<b>PERCNT:10TH</b>		.4	1.5	29.15	6.2	0.	94.	9.4	.6	10 <sup>e</sup> PERCNT
<b>25TH</b>		.4	1.6	29.8	6.4	0.	95.	10.	.6	25 <sup>e</sup>
<b>MEDIAN 50TH</b>		.5	1.9	30.10	6.7	0.	104.	11.0	.7	50 <sup>e</sup> MEDIANE
<b>75TH</b>		.7	2.5	31.8	7.0	0.	115.	16.	.8	75 <sup>e</sup>
<b>90TH</b>		1.2	3.9	37.20	7.6	0.	119.	26.6	1.0	90 <sup>e</sup>
SECONDARY CODE								04L 03L	06L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07506L NITROGEN TOTAL AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15314L PHOSPHORUS TOTAL INORG. PO4 P MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	0479	10(2)	30(2)	24(24)	20(0)	19(0)	20(4)	18(13)	1(1)	ECHANTILLONS(IND.)
<b>LOW</b>	0001	L.1	L.005	L.1	.09	.02	L.003	L.002	L.002	MINIMUM
<b>HIGH</b>	0056	2.1	.13	L0.	.32	3.9	.05	.013	L.002	MAXIMUM
<b>AVERAGE</b>	0103	.7*	.055*		.17	.304	.010*	.004*		MOYENNE
<b>STD.DEV.</b>	0003	.6*	.031*		.07	.876	.011*	.003*		ECART-TYPE
<b>PERCNT:10TH</b>		.1*	.010	L.1	.10	.02	L.003	L.003		10 <sup>e</sup> PERCNT
<b>25TH</b>		.3	.04	L.100	.11	.05	.003	L.003		25 <sup>e</sup>
<b>MEDIAN 50TH</b>		.5*	.060	L.100	.14	.06	.006	L.003		50 <sup>e</sup> MEDIANE
<b>75TH</b>		.9	.07	L.100	.23	.17	.014	.003		75 <sup>e</sup>
<b>90TH</b>		1.7	.095	L.1	.27	.44	.018	.008		90 <sup>e</sup>
SECONDARY CODE								57L	CODE DE SECOURS	

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07FD0002 LAT. 55 D 55 M 18 S LONG 118 D 36 M 33 S

UTM 11 399500E 6198300N  
AUG 19 1969 TO/A DEC 18 1979PEACE RIVER AT HWY 2 DUNVEGAN  
ALBERTA

SUBM ID		15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	08101P OXYGEN DISSOLVED DO	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06104L CARBON DISSOLVED ORGANIC	06152L CARBON DISSOLVED INORGANIC	
		P MG/L	P MG/L	SiO2 MG/L	O2 MG/L	C MG/L	C MG/L	C MG/L	C MG/L	
SAMPLES(FLAGS)	0479		4(0)	26(0)	20(0)	11(0)	11(0)	24(0)	24(0)	ECHANTILLONS(IND.)
LOW	0103		.013	2.8	9.2	1.	10.0	1.	14.	MINIMUM
HIGH	0003		.430	4.8	14.8	22.0	23.	12.	23.	MAXIMUM
AVERAGE	0001		.174	3.91	11.4	7.5	18.5	3.8	19.9	MOYENNE
STD.DEV.	0056		.198	.49	1.6	7.4	4.3	2.4	1.7	ECART-TYPE
PERCNT:10TH				3.3	9.3	2.	14.	2.	18.	10 <sup>e</sup> PERCNT
25TH			.018	3.4	9.9	2.	14.0	2.0	19.0	25 <sup>e</sup>
MEDIAN 50TH			.126	4.00	11.1	4.	20.	3.0	20.0	50 <sup>e</sup> MEDIANE
75TH			.330	4.3	12.6	13.0	22.0	5.0	21.0	75 <sup>e</sup>
90TH				4.4	13.6	20.0	22.	6.	21.	90 <sup>e</sup>
SECONDARY CODE				05L	01S			01L	51L	CODE DE SECOURS

SUBM ID		03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24052L CHROMIUM DISSOLVED	24302P CHROMIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
		LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS)	0103	14(11)	14(2)	16(1)	13(10)	1(1)	18(17)	1(1)	17(4)	ECHANTILLONS(IND.)
LOW	0001	L.005	L.02	.024	L.001	L.004	L.010	L.010	L.008	MINIMUM
HIGH	0479	.021	.21	7.9	L.05	L.004	.033	L.010	.97	MAXIMUM
AVERAGE	0056	.008*	.05*	1.181*	.0238*		.013*		.135*	MOYENNE
STD.DEV.	0003	.005*	.05*	2.062*	.0251*		.006*		.238*	ECART-TYPE
PERCNT:10TH		L.005	L.02	.025	L.001		L.010		L.010	10 <sup>e</sup> PERCNT
25TH		L.005	.03	.100*	L.001		L.010		.011	25 <sup>e</sup>
MEDIAN 50TH		L.005	.04	.360	.004		L.010		.02	50 <sup>e</sup> MEDIANE
75TH		L.005	.05	.915	L.05		L.015		.16	75 <sup>e</sup>
90TH		.018	.11	3.5	L.05		L.015		.33	90 <sup>e</sup>
SECONDARY CODE				05P	01P				05P	CODE DE SECOURS

SUBM ID		26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28101L NICKEL DISSOLVED	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	
		FE MG/L	FE MG/L	CO MG/L	NI MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0103	1(0)	17(0)	18(11)	1(1)	18(10)	19(6)	18(1)	14(8)	ECHANTILLONS(IND.)
LOW	0001	.010	.08	L.001	L.00	L.001	L.001	.001	L.0005	MINIMUM
HIGH	0479	.010	27.	.017	L.00	.060	.046	.20	.015	MAXIMUM
AVERAGE	0003		3.686	.006*		.011*	.009*	.021*	.0034*	MOYENNE
STD.DEV.	0056		7.207	.005*		.015*	.011*	.046*	.0048*	ECART-TYPE
PERCNT:10TH			.08	L.001		L.001	L.001	.001	L.0005	10 <sup>e</sup> PERCNT
25TH			.16	L.002		L.002	L.001	.003	L.0005	25 <sup>e</sup>
MEDIAN 50TH			.35	.002*		.005	.004	.005	.0005	50 <sup>e</sup> MEDIANE
75TH			2.40	L.01		L.01	.012	.018	L.005	75 <sup>e</sup>
90TH			14.6	.015		.029	.025	.046	.012	90 <sup>e</sup>
SECONDARY CODE				01P		01P	06L 06P	04L 04P	03L	CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB-BASIN

STATION 00AL07FD0002 LAT. 55 D 55 M 18 S LONG. 118 D 36 M 33 S

UTM 11 399500E 6198300 N  
AUG 19, 1969 TO/A OCT 16, 1979

PEACE RIVER AT HWY 2, DUNVEGAN,  
ALBERTA

		34102L SELENIUM DISSOLVED	38101L STRONTIUM DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48101L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	
	SUBM ID	SE MG/L	SR MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	
SAMPLES(FLAGS)	0001	8(8)	1(0)	18(0)	17(17)	16(15)	1(1)	17(14)	5(5)	ECHANTILLONS(IND.)
LOW	0103	L.0005	.10	.05	L.05	L.00	L.00	L.001	L.008	MINIMUM
HIGH	0056	L.0005	.10	.25	L.10	L.01	L.00	L.01	L.50	MAXIMUM
AVERAGE	0003			.14		.01*		.002*		MOYENNE
STD.DEV.	0479			.05		.00*		.003*		ECART-TYPE
PERCNT:10TH				.07	L.05	L.00		L.001		10 <sup>e</sup> PERCNT
25TH		L.0005		.11	L.05	L.00		L.001	L.20	25 <sup>e</sup>
MEDIAN 50TH		L.0005		.13	L.05	L.01		L.001	L.40	50 <sup>e</sup> MEDIANE
75TH		L.0005		.16	L.10	L.01		.001	L.40	75 <sup>e</sup>
90TH				.24	L.10	L.01		L.01		90 <sup>e</sup>
SECONDARY CODE					01L			01P	02P	CODE DE SECOURS

		56301P BARIUM EXTRBLE.	80011P MERCURY TOTAL	80111P MERCURY DISSOLVED	80313P MERCURY EXTRBLE.	81101L THALLIUM DISSOLVED	81301P THALLIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	
	SUBM ID	BA MG/L	HG UG/L	HG UG/L	HG UG/L	TL MG/L	TL MG/L	PB MG/L	PB MG/L	
SAMPLES(FLAGS)	0001	16(11)	5(1)	1(0)	14(12)	1(1)	6(6)		16(11)	ECHANTILLONS(IND.)
LOW	0103	L.0	L.02	.03	L.02	L.0	L.10		L.001	MINIMUM
HIGH	0479	.5	.14	.03	L.05	L.0	L.2		.019	MAXIMUM
AVERAGE	0056	.1*	.07*		.03*				.005*	MOYENNE
STD.DEV.	0003	.1*	.04*		.01*				.005*	ECART-TYPE
PERCNT:10TH		L.0			L.02				L.001	10 <sup>e</sup> PERCNT
25TH		L.0	.05		L.02		L.10		L.001	25 <sup>e</sup>
MEDIAN 50TH		L.1	.06		.03		L.20		L.004	50 <sup>e</sup> MEDIANE
75TH		.1	.06		L.05		L.2		.007	75 <sup>e</sup>
90TH		.3			L.05				L.01	90 <sup>e</sup>
SECONDARY CODE					11P		02P		01L	CODE DE SECOURS

		92101L URANIUM DISSOLVED	36001L COLIFORMS TOTAL	36011L COLIFORMS FECAL	36102L FECAL STREP.	06535P PHENOLIC MATERIAL	06711L CHLORO- PHYLL A	06902L CARBON ORGANIC PARTICUL. C	10711P NTA NITRILOTRI ACETIC AC. H3NTA	
	SUBM ID	U MG/L	MPN NO/DL	MPN NO/DL	MF NO/DL	PHENOL MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	1(0)	22(1)	23(12)	23(12)	25(10)	3(0)	19(0)	1(1)	ECHANTILLONS(IND.)
LOW	0479	.0004	L.2	L.2	L.2	L.001	.016	.11	L.01	MINIMUM
HIGH	0103	.0004	1600.	63.	144.	.005	.095	43.1	L.01	MAXIMUM
AVERAGE	0056		155.*	8.*	14.*	.002*	.0430	3.655		MOYENNE
STD.DEV.	0003		348.*	17.*	37.*	.001*	.0450	9.809		ECART-TYPE
PERCNT:10TH			2.	L.2	L.2	L.001		.12		10 <sup>e</sup> PERCNT
25TH			12.	L.2	L.2	L.001		.23		25 <sup>e</sup>
MEDIAN 50TH			25.	L.2	L.2	.001	.018	.58		50 <sup>e</sup> MEDIANE
75TH			162.	2.	4.	.002		1.7		75 <sup>e</sup>
90TH			394.	33.	10.	.003		9.1		90 <sup>e</sup>
SECONDARY CODE			02F 02L	12F 12L	02F 01L	32P				CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB BASIN

STATION 00AL07FD0002 LAT 55 D 55 M 18 S LONG. 118 D 36 M 33 S

UTM 11 399500 6198300 N  
AUG 31 1971 TO/A OCT 16 1979

PEACE RIVER AT HWY 2 DUNVEGAN  
ALBERTA

		18195P ALDRIN	18075L AZIN PHOSETHYL	18075L ALPHA- BHC	18075L GAMMA- BHC (LINDANE)	18060L ALPHA- (CIS) CHLORDANE	18065L GAMMA (TRANS) CHLORDANE	18210P CRUFOMATE	18005L HEOD (DIELDRIN)	
	SUBM ID	UG L	UG L	UG L	UG L	UG L	UG L	UG L	UG L	
SAMPLES(FLAGS)	0103	10(10)	2(2)	8(0)	12(11)	8(8)	8(8)	2(2)	12(12)	ECHANTILLONS(IND.)
LOW	0001	L.001	L.2	.003	L.001	L.003	L.002	L.2	L.002	MINIMUM
HIGH	0479	L.001	L.2	.008	.001	L.003	L.002	L.2	L.002	MAXIMUM
AVERAGE				.005	.001*					MOYENNE
STD.DEV.				.002	.000*					ECART-TYPE
PERCNT:10TH		L.001			L.001				L.002	10 <sup>e</sup> PERCNT
25TH		L.001		.004	L.001	L.003	L.002		L.002	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.20	.004	L.001	L.003	L.002	L.20	L.002	50 <sup>e</sup> MEDIANE
75TH		L.001		.006	L.001	L.003	L.002		L.002	75 <sup>e</sup>
90TH		L.001			L.001				L.002	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		18000L P,P-DDT	18005L O,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18270P DIAZINON	18215P DISULFOTON	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	
	SUBM ID	UG L	UG L	UG L	UG L	UG L	UG L	UG L	UG L	
SAMPLES(FLAGS)	0001	12(12)	6(6)	12(12)	12(12)	7(7)	2(2)	12(12)	12(12)	ECHANTILLONS(IND.)
LOW	0103	L.004	L.001	L.001	L.001	L.02	L.02	L.001	L.003	MINIMUM
HIGH	0479	L.004	L.001	L.002	L.001	L.02	L.02	L.001	L.003	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH		L.004		L.002	L.001			L.001	L.003	10 <sup>e</sup> PERCNT
25TH		L.004	L.001	L.002	L.001	L.02		L.001	L.003	25 <sup>e</sup>
MEDIAN 50TH		L.004	L.001	L.002	L.001	L.02	L.020	L.001	L.003	50 <sup>e</sup> MEDIANE
75TH		L.004	L.001	L.002	L.001	L.02		L.001	L.003	75 <sup>e</sup>
90TH		L.004		L.002	L.001			L.001	L.003	90 <sup>e</sup>
SECONDARY CODE						70L				CODE DE SECOURS

		18140L ENDRIN	18310P ETHION	18190P AZIN- PHOSMETHYL (GUTHION)	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	18205P IMIDAN	18250P MALATHION	18520P MCPA	
	SUBM ID	UG L	UG L	UG L	UG L	UG L	UG L	UG L	UG L	
SAMPLES(FLAGS)	0479	8(8)	8(7)	8(8)	12(12)	12(12)	2(2)	7(7)	9(9)	ECHANTILLONS(IND.)
LOW	0001	L.002	L.01	L.1	L.001	L.002	L.2	L.01	L.2	MINIMUM
HIGH	0103	L.002	L.02	L.5	L.001	L.002	L.2	L.05	L.2	MAXIMUM
AVERAGE			.01*							MOYENNE
STD.DEV.			.01*							ECART-TYPE
PERCNT:10TH					L.001	L.002				10 <sup>e</sup> PERCNT
25TH		L.002	L.01	L.10	L.001	L.002		L.01	L.2	25 <sup>e</sup>
MEDIAN 50TH		L.002	.01*	L.10	L.001	L.002	L.20	L.01	L.2	50 <sup>e</sup> MEDIANE
75TH		L.002	L.02	L.50	L.001	L.002		L.05	L.2	75 <sup>e</sup>
90TH					L.001	L.002				90 <sup>e</sup>
SECONDARY CODE			10L	90L						CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB-BASIN

STATION **00AL07FD0002** LAT. **55 D 55 M 18 S** LONG. **118 D 36 M 33 S**

UTM **11 399500 E 6198300 N**  
AUG 31, 1971 TO/A OCT 16, 1979

PEACE RIVER AT HWY 2, DUNVEGAN,  
ALBERTA

		18030L P,P- METHOXY- CHLOR	18125L MIREX	18240P PARATHION	18245P PARATHION- METHYL	18300P PHORATE	18601P PICLORAM	18260P FENCHLORPHOS (RONNEL)	18540P FENOPROP (SILVEX)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0001	12(12)	6(6)	8(8)	3(3)	2(2)	6(6)	2(2)	6(6)	ECHANTILLONS(IND.)
LOW	0479	L.01	L.001	L.01	L.01	L.02	L.2	L.02	L.004	MINIMUM
HIGH	0103	L.012	L.001	L.02	L.02	L.02	L.2	L.02	L.004	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH		L.01								10 <sup>e</sup> PERCNT
25TH		L.010	L.001	L.01			L.2		L.004	25 <sup>e</sup>
MEDIAN 50TH		L.010	L.001	L.01	L.02	L.02	L.20	L.02	L.004	50 <sup>e</sup> MEDIANE
75TH		L.012	L.001	L.02			L.2		L.004	75 <sup>e</sup>
90TH		L.012								90 <sup>e</sup>
SECONDARY CODE				40L	45L					CODE DE SECOURS

		18320P CARBO- PHENOTHION	18325L METHYLCARBO PHENOTHION	18500P 2,4-D	18510P 2,4,5-T	18550P 2,4-DB	18555P DICHLORPROP	18160L AROCLOR 1254 (PCB'S)	18161L AROCLOR 1248 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0479	7(7)	1(1)	11(9)	11(9)	10(10)	10(10)	10(10)	10(10)	ECHANTILLONS(IND.)
LOW	0001	L.02	L.02	L.004	L.001	L.006	L.002	L.002	L.002	MINIMUM
HIGH	0103	L.02	L.02	.05	.009	L.009	L.004	L.032	L.024	MAXIMUM
AVERAGE	0003			.009*	.003*					MOYENNE
STD.DEV.				.014*	.002*					ECART-TYPE
PERCNT:10TH				L.004	L.001	L.007	L.003	L.002	L.002	10 <sup>e</sup> PERCNT
25TH		L.02		L.004	L.002	L.009	L.004	L.002	L.002	25 <sup>e</sup>
MEDIAN 50TH		L.02		L.004	L.002	L.009	L.004	L.002	L.002	50 <sup>e</sup> MEDIANE
75TH		L.02		L.004	L.002	L.009	L.004	L.002	L.002	75 <sup>e</sup>
90TH				.01	.002	L.009	L.004	L.031	L.022	90 <sup>e</sup>
SECONDARY CODE				00L	10L	50L	55L			CODE DE SECOURS

		18162L AROCLOR 1260 (PCB'S)	17811L HEXACHLORO- BENZENE	10151L ALKALINITY PHENOL PHTHALEIN	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	UG/L	UG/L	CACO3 MG/L	F MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	8(8)	6(6)	23(0)	24(5)	25(0)	1(0)	3(0)	ECHANTILLONS(IND.)
LOW	0479	L.005	L.001	0.	L.05	1.	8.	19.	MINIMUM
HIGH	0056	L.06	L.001	0.	.09	1590.	8.	1410.	MAXIMUM
AVERAGE	0103			.0	.06*	192.		535.	MOYENNE
STD.DEV.	0003			.0	.01*	382.		762.	ECART-TYPE
PERCNT:10TH				.0	L.05	1.			10 <sup>e</sup> PERCNT
25TH		L.005	L.001	0.	.05	11.			25 <sup>e</sup>
MEDIAN 50TH		L.005	L.001	.0	.06	25.		177.	50 <sup>e</sup> MEDIANE
75TH		L.005	L.001	.0	.07	212.			75 <sup>e</sup>
90TH				0.	.09	565.			90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00AL07FD0003 LAT. 55 D 50 M 0 S LONG. 119 D 10 M 12 S

UTM 11 364100E 6189400N

AUG 26 1973 TO A JAN 14 1974

KSITUAN RIVER WEST OF SPIRIT RIVER  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00213L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		261.	146.	121.	80.	26.0	7.7	89.0	-.3	MINIMUM
HIGH		350.	239.	211.	100.	42.0	8.5	173.	.7	MAXIMUM
AVERAGE		310.	191.	162.7	90.	32.3		121.7		MOYENNE
STD.DEV.		45.	47.	45.4	10.	8.5		45.0		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		319.	187.	156.	90.	29.0	7.8	103.	.3	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	2(0)	2(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		2.0	7.9	37.0	6.9	0.	108.	.9	37.0	MINIMUM
HIGH		3.3	9.5	64.0	12.4	0.	211.	1.2	58.0	MAXIMUM
AVERAGE		2.7	8.5	49.3	9.6	0.	160.	1.1	46.7	MOYENNE
STD.DEV.		.7	.9	13.7	2.7	0.	72.	.2	10.6	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		2.7	8.0	47.0	9.4	0.	160.	1.1	45.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0103	3(0)	3(2)				3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		1.1	L.001				.019	4.2	20.0	MINIMUM
HIGH		1.2	.020				.160	7.9	28.0	MAXIMUM
AVERAGE		1.2	.007*				.084	6.2	24.7	MOYENNE
STD.DEV.		.1	.011*				.071	1.9	4.2	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.2	L.001				.072	6.4	26.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07FD0003 LAT. 55 D 50 M 0 S LONG. 119 D 10 M 12 S

UTM 11 364100E 6189400 N  
JUN 16, 1971 TO/A JAN 14, 1974KSITUAN RIVER WEST OF SPIRIT RIVER,  
ALBERTA

	SUBM ID	06711L CHLORO- PHYLL A MG/L	09105L FLUORIDE DISSOLVED F MG/L	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23301P VANADIUM EXTRBLE. V MG/L	25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	ECHANTILLONS(IND.)
SAMPLES(FLAGS)	0103	2(0)	3(1)	5(0)	5(0)	9(0)	4(3)		8(0)	MINIMUM
LOW		.003	L.05	.006	.10	.20	L.05		.04	MAXIMUM
HIGH		.050	.09	.053	.30	46.	.06		1.40	MOYENNE
AVERAGE		.0265	.07*	.018	.19	16.767	.0525*		.24	ECART-TYPE
STD.DEV.		.0332	.02*	.020	.09	48.466	.0050*		.47	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				.007	.14	.26	L.0500		.05	25 <sup>e</sup>
MEDIAN 50TH		.0265	.08	.010	.15	.41	L.0500		.09	50 <sup>e</sup> MEDIANE
75TH				.013	.26	.80	.0550*		.09	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

	SUBM ID	24302P CHROMIUM EXTRBLE. CR MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	ECHANTILLONS(IND.)
SAMPLES(FLAGS)	0103	8(8)	7(0)	8(3)	8(0)	8(0)	7(0)	4(1)	8(0)	MINIMUM
LOW		L.010	1.10	L.001	.004	.002	.002	L.005	.15	MAXIMUM
HIGH		L.010	2.90	.04	.09	.006	.030	.034	.86	MOYENNE
AVERAGE			1.971	.009*	.018	.004	.009	.0173*	.29	ECART-TYPE
STD.DEV.			.658	.014*	.029	.002	.010	.0121*	.23	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.010	1.50	L.001	.005	.003	.004	.0095*	.19	25 <sup>e</sup>
MEDIAN 50TH		L.010	1.80	.003	.009	.005	.007	.0150	.21	50 <sup>e</sup> MEDIANE
75TH		L.010	2.70	.012	.012	.005	.008	.0250	.27	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P	01P					CODE DE SECOURS

	SUBM ID	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	48302P CADMIUM EXTRBLE. CD MG/L	51301P ANTIMONY EXTRBLE. SB MG/L	56301P BARIUM EXTRBLE. BA MG/L	80311P MERCURY EXTRBLE. HG UG/L	81302P THALLIUM EXTRBLE. TL MG/L	82302P LEAD EXTRBLE. PB MG/L	ECHANTILLONS(IND.)
SAMPLES(FLAGS)	0103	7(7)	8(7)	8(5)	4(3)	8(6)	5(5)	5(4)	8(8)	MINIMUM
LOW		L.05	L.01	L.001	L.008	L.1	L.05	L.10	L.001	MAXIMUM
HIGH		L.05	.05	.01	L.50	.1	L.05	.3	L.001	MOYENNE
AVERAGE			.01*	.002*	.277*	.1*		.18*		ECART-TYPE
STD.DEV.			.01*	.003*	.218*	.0*		.08*		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.05	L.01	L.001	.104*	L.1	L.05	L.10	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.01	L.001	.300*	L.1	L.05	L.2	L.001	50 <sup>e</sup> MEDIANE
75TH		L.05	L.01	.002	L.450	.1*	L.05	L.2	L.001	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P	02P		01P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00AL07FD0004 LAT 56 D 18 M 21 S LONG. 119 D 40 M 51 S

UTM 11 334200E 6243100N

AUG 26 1973 TO/A JAN 13 1974

CLEAR RIVER NEAR BEAR CANYON ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		191.	107.	94.0	65.	25.0	7.6	59.0	-.2	MINIMUM
HIGH		740.	463.	356.	140.	110.	8.0	203.	.5	MAXIMUM
AVERAGE		445.	269.	213.3	105.	60.0		129.3		MOYENNE
STD.DEV.		277.	180.	132.5	38.	44.4		72.1		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		404.	238.	190.	110.	45.0	7.7	126.	.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		1.3	2.2	30.0	4.6	0.	72.	.7	32.0	MINIMUM
HIGH		3.3	31.0	98.0	27.0	0.	247.	1.6	180.	MAXIMUM
AVERAGE		2.3	15.7	61.3	14.6	0.	158.	1.3	96.3	MOYENNE
STD.DEV.		1.0	14.5	34.3	11.4	0.	88.	.5	75.9	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		2.3	14.0	56.0	12.2	0.	154.	1.6	77.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0103	3(0)	3(1)				3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		.7	L.001				.013	6.2	16.0	MINIMUM
HIGH		1.3	.240				.120	7.4	31.0	MAXIMUM
AVERAGE		1.0	.087*				.062	7.0	23.3	MOYENNE
STD.DEV.		.3	.133*				.054	.7	7.5	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.1	.020				.053	7.4	23.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07FD0004 LAT. 56 D 18 M 21 S LONG. 119 D 40 M 51 S

UTM 11 334200E 6243100 N  
AUG 04, 1971 TO/À JAN 13, 1974

CLEAR RIVER NEAR BEAR CANYON, ALBERTA

	SUBM ID	06711L CHLORO- PHYLL A MG/L	09105L FLUORIDE DISSOLVED F MG/L	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23301P VANADIUM EXTRBLE. V MG/L	25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	
SAMPLES(FLAGS)	0103	2(1)	3(0)	1(0)	3(0)	5(1)	2(2)		5(0)	ECHANTILLONS(IND.)
LOW		L.001	.09	.019	.12	L.10	L.05		.07	MINIMUM
HIGH		.022	.15	.019	.14	3.1	L.05		.15	MAXIMUM
AVERAGE		.0115*	.12		.13	1.198*			.12	MOYENNE
STD.DEV.		.0149*	.03		.01	1.210*			.03	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH						.33			.11	25 <sup>e</sup>
MEDIAN 50TH		.0115*	.13		.12	.86	L.0500		.12	50 <sup>e</sup> MEDIANE
75TH						1.6			.13	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

	SUBM ID	24302P CHROMIUM EXTRBLE. CR MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	
SAMPLES(FLAGS)	0103	5(5)	4(0)	5(2)	5(1)	5(0)	5(0)	1(0)	5(0)	ECHANTILLONS(IND.)
LOW		L.010	1.20	L.001	.004	.003	.005	.030	.11	MINIMUM
HIGH		L.010	6.60	L.01	.016	.008	.023	.030	.26	MAXIMUM
AVERAGE			3.575	.004*	.010*	.005	.012		.19	MOYENNE
STD.DEV.			2.246	.004*	.005*	.002	.008		.06	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.010	2.100	.002	.007	.004	.007		.17	25 <sup>e</sup>
MEDIAN 50TH		L.010	3.250	.003	L.01	.005	.009		.18	50 <sup>e</sup> MEDIANE
75TH		L.010	5.050	.003	.013	.005	.018		.23	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P	01P					CODE DE SECOURS

	SUBM ID	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	48302P CADMIUM EXTRBLE. CD MG/L	51301P ANTIMONY EXTRBLE. SB MG/L	56301P BARIUM EXTRBLE. BA MG/L	80311P MERCURY EXTRBLE. HG UG/L	81302P THALLIUM EXTRBLE. TL MG/L	82302P LEAD EXTRBLE. PB MG/L	
SAMPLES(FLAGS)	0103	5(5)	5(5)	5(5)	2(2)	5(3)	3(3)	2(2)	5(5)	ECHANTILLONS(IND.)
LOW		L.05	L.01	L.001	L.40	L.1	L.05	L.10	L.001	MINIMUM
HIGH		L.05	L.01	L.01	L.50	.1	L.05	L.2	L.001	MAXIMUM
AVERAGE						.1*				MOYENNE
STD.DEV.						.0*				ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.05	L.01	L.001		L.1			L.001	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.01	L.001	L.450	L.1	L.05	L.15	L.001	50 <sup>e</sup> MEDIANE
75TH		L.05	L.01	L.001		.1			L.001	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P			01P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07FD0005 LAT. 56 D 4 M 6 S LONG. 118 D 39 M 36 S

UTM 11 396700E 6214700N  
AUG 26 1973 TO/A OCT 26 1973

HINES CREEK NEAR FAIRVIEW ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00213L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0103	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW		337.	194.	175.	50.	130.	7.8	116.	.2	MINIMUM
HIGH		428.	252.	210.	70.	130.	8.0	128.	.3	MAXIMUM
AVERAGE		383.	223.	192.5	60.	130.0		122.0		MOYENNE
STD.DEV.		64.	41.	24.7	14.	.0		8.5		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		383.	223.	192.5	60.	130.0	7.9	122.0	.2	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0103	2(0)	2(0)	2(0)	2(0)			2(0)	2(0)	ECHANTILLONS(IND.)
LOW		2.5	2.5	55.0	9.1			.6	54.0	MINIMUM
HIGH		5.9	4.9	58.0	15.8			1.5	90.0	MAXIMUM
AVERAGE		4.2	3.7	56.5	12.5			1.0	72.0	MOYENNE
STD.DEV.		2.4	1.7	2.1	4.7			.6	25.5	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		4.2	3.7	56.5	12.5			1.0	72.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KUJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0103	2(0)	2(0)				2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW		1.1	.030				.036	3.2	32.0	MINIMUM
HIGH		2.2	.055				.160	3.5	46.0	MAXIMUM
AVERAGE		1.7	.043				.098	3.3	39.0	MOYENNE
STD.DEV.		.8	.018				.088	.2	9.9	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.7	.043				.098	3.3	39.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION 00AL07FD0005 LAT. 56 D 4 M 6 S LONG. 118 D 39 M 36 S

UTM 11 396700E 6214700 N  
AUG 04, 1971 TO/A OCT 26, 1973

HINES CREEK NEAR FAIRVIEW, ALBERTA

	06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0103	2(0)	2(0)	3(0)	3(0)	5(0)	2(2)		5(1)	ECHANTILLONS(IND.)
LOW	.017	.10	.021	.08	.72	L.05		L.01	MINIMUM
HIGH	.025	.13	.022	.25	5.9	L.05		.42	MAXIMUM
AVERAGE	.0210	.12	.022	.14	3.564			.20*	MOYENNE
STD.DEV.	.0057	.02	.001	.09	2.451			.18*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					1.1			.10	25 <sup>e</sup>
MEDIAN 50TH	.0210	.12	.022	.10	5.0	L.0500		.11	50 <sup>e</sup> MEDIANE
75TH					5.1			.35	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	24302P CHROMIUM EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	
SUBM ID	CR MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	
SAMPLES(FLAGS) 0103	5(4)	4(0)	5(1)	5(1)	5(0)	4(1)	2(1)	5(0)	ECHANTILLONS(IND.)
LOW	L.010	.15	.001	.007	.006	L.001	L.005	.14	MINIMUM
HIGH	.016	18.0	.011	.036	.026	.060	.020	.25	MAXIMUM
AVERAGE	.011*	6.062	.007*	.019*	.014	.019*	.0125*	.19	MOYENNE
STD.DEV.	.003*	8.139	.004*	.013*	.010	.028*	.0106*	.05	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.010	.975	.004	L.01	.006	.003*		.15	25 <sup>e</sup>
MEDIAN 50TH	L.010	3.050	L.01	.012	.008	.007	.0125*	.19	50 <sup>e</sup> MEDIANE
75TH	L.010	11.150	.010	.030	.023	.034		.24	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			01P	01P					CODE DE SECOURS

	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	
SUBM ID	MO MG/L	AG MG/L	CD MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	
SAMPLES(FLAGS) 0103	4(4)	4(4)	5(5)	2(2)	5(1)	3(3)	3(3)	5(4)	ECHANTILLONS(IND.)
LOW	L.05	L.01	L.001	L.40	L.1	L.05	L.10	L.001	MINIMUM
HIGH	L.05	L.01	L.01	L.50	.2	L.05	L.2	.013	MAXIMUM
AVERAGE					.1*			.003*	MOYENNE
STD.DEV.					.1*			.005*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.05	L.01	L.001		.1			L.001	25 <sup>e</sup>
MEDIAN 50TH	L.05	L.01	L.001	L.450	.1	L.05	L.2	L.001	50 <sup>e</sup> MEDIANE
75TH	L.05	L.01	L.001		.2			L.001	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			01P				01P		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION: 00AL07FD0006 LAT: 56° 23' N 54° 10' W LONG: 118° 42' W 45° E

UTM 11 394300 6251500  
AUG 26 1973 TO/A JAN 13 1974MONTAGNEUSE RIVER NEAR HINES CREEK  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		371.	210.	197.	90.	5.5	7.8	156.	.3	MINIMUM
HIGH		610.	378.	338.	110.	27.0	8.0	253.	.9	MAXIMUM
AVERAGE		459.	276.	248.0	103.	16.5		188.7		MOYENNE
STD.DEV.		131.	89.	78.2	12.	10.8		55.7		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		397.	240.	209.	110.	17.0	7.9	157.	.5	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODÉ DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	2(0)	2(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		1.7	7.2	58.0	11.9	0.	191.	1.2	35.0	MINIMUM
HIGH		3.5	12.0	95.0	24.5	0.	308.	1.7	90.0	MAXIMUM
AVERAGE		2.8	9.2	72.3	16.4	0.	250.	1.4	61.0	MOYENNE
STD.DEV.		.9	2.5	19.9	7.0	0.	83.	.3	27.6	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		3.1	8.3	64.0	12.7	0.	250.	1.4	58.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODÉ DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0103	3(0)	3(2)				3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		1.2	L.001				.062	6.6	18.0	MINIMUM
HIGH		1.3	.010				.092	11.0	37.0	MAXIMUM
AVERAGE		1.3	.004*				.079	8.3	29.3	MOYENNE
STD.DEV.		.1	.005*				.015	2.4	10.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.3	L.001				.082	7.2	33.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODÉ DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07FD0006 LAT. 56 D 23M 54 S LONG. 118 D 42M 45 S

UTM 11 394300E 6251500 N  
AUG 04, 1971 TO/A JAN 13, 1974MONTAGNEUSE RIVER NEAR HINES CREEK,  
ALBERTA

	06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
SUBM ID	MG/L	MG/L	LI MG/L	B MG/L	AL MG/L	V MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0103	2(0)	3(0)	3(0)	4(0)	6(2)	2(2)		6(0)	ECHANTILLONS(IND.)
LOW	.017	.09	.017	.12	L.10	L.05		.02	MINIMUM
HIGH	.024	.12	.021	.27	2.8	L.05		.20	MAXIMUM
AVERAGE	.0205	.11	.019	.18	.625*			.10	MOYENNE
STD.DEV.	.0050	.02	.002	.07	1.070*			.06	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				.13	L.10			.05	25 <sup>e</sup>
MEDIAN 50TH	.0205	.12	.019	.16	.210	L.0500		.09	50 <sup>e</sup> MEDIANE
75TH				.22	.33			.14	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	24302P CHROMIUM EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	
SUBM ID	CR MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	
SAMPLES(FLAGS) 0103	6(6)	5(0)	6(2)	6(1)	6(2)	5(0)	2(1)	6(0)	ECHANTILLONS(IND.)
LOW	L.010	.41	L.001	.004	L.001	.001	L.005	.14	MINIMUM
HIGH	L.010	8.00	L.01	.022	.016	.066	.040	.36	MAXIMUM
AVERAGE	2.222	.004*	.010*	.005*	.019	.0225*	.0225*	.23	MOYENNE
STD.DEV.		3.243	.003*	.007*	.006*	.027	.0247*	.08	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.010	.68	.002	.005	L.001	.006		.19	25 <sup>e</sup>
MEDIAN 50TH	L.010	.82	.003	.008	.002	.007	.0225*	.22	50 <sup>e</sup> MEDIANE
75TH	L.010	1.20	.007	L.01	.007	.016		.27	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			01P	01P					CODE DE SECOURS

	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	
SUBM ID	MO MG/L	AG MG/L	CD MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	
SAMPLES(FLAGS) 0103	5(5)	6(6)	6(5)	2(2)	6(4)	3(3)	3(3)	6(6)	ECHANTILLONS(IND.)
LOW	L.05	L.01	L.001	L.40	L.1	L.05	L.10	L.001	MINIMUM
HIGH	L.05	L.01	L.01	L.50	.2	L.05	L.2	L.001	MAXIMUM
AVERAGE			.002*		.1*				MOYENNE
STD.DEV.			.004*		.0*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.05	L.01	L.001		L.1			L.001	25 <sup>e</sup>
MEDIAN 50TH	L.05	L.01	L.001	L.450	L.1	L.05	L.2	L.001	50 <sup>e</sup> MEDIANE
75TH	L.05	L.01	.001		.1			L.001	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			01P				01P		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07GA0001 LAT. 53 D 57M

LONG. 119 D 9M

UTM 11 358000E 5980000N  
MAY 27 1970 TO/A MAY 14 1974

SMOKY RIVER ABOVE HELLS CREEK ALBERTA

		02641L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00219L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	(MG/L)	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0004	41(0)	41(1)	41(0)	41(17)	41(0)	41(0)	41(0)	41(1)	ECHANTILLONS(IND.)
LOW	0058	168.	Q24.	20.9	L5.	.7	7.4	10.7	Q-2.1	MINIMUM
HIGH		604.	402.	346.	70.	130.	8.3	175.	.9	MAXIMUM
AVERAGE		377.	215.*	186.3	11.*	17.0		97.9		MOYENNE
STD.DEV.		138.	98.*	80.5	13.*	25.7		30.6		ECART-TYPE
PERCENT:10TH		184.	91.	85.7	L5.	1.2	7.9	62.7	-.2	10 <sup>e</sup> PERCNT
25TH		240.	123.	113.	L5.	2.0	8.0	73.8	.0	25 <sup>e</sup>
MEDIAN 50TH		421.	200.	176.	5.	5.6	8.1	99.7	.3	50 <sup>e</sup> MEDIANE
75TH		501.	309.	261.	10.	24.0	8.2	123.	.6	75 <sup>e</sup>
90TH		527.	324.	273.	20.	45.0	8.2	131.	.7	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBON. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0058	41(0)	41(1)	41(0)	41(0)	41(0)	41(0)	41(0)	39(0)	ECHANTILLONS(IND.)
LOW	0004	.2	L1	6.5	1.1	0.	13.	.1	17.3	MINIMUM
HIGH		4.0	4.3	96.8	25.3	0.	213.	1.6	154.	MAXIMUM
AVERAGE		.6	2.4*	51.7	13.9	0.	119.	.8	86.8	MOYENNE
STD.DEV.		.6	1.1*	21.7	6.6	0.	37.	.5	49.6	ECART-TYPE
PERCENT:10TH		.3	1.0	24.0	5.8	0.	76.	.3	21.1	10 <sup>e</sup> PERCNT
25TH		.4	1.4	32.5	7.9	0.	90.	.4	36.2	25 <sup>e</sup>
MEDIAN 50TH		.5	2.7	50.2	13.9	0.	122.	.9	75.8	50 <sup>e</sup> MEDIANE
75TH		.7	3.4	71.0	19.7	0.	150.	1.2	140.	75 <sup>e</sup>
90TH		.7	3.6	75.3	21.6	0.	160.	1.4	147.	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0004		39(1)	2(2)	1(1)	40(25)	1(0)	40(0)	33(4)	ECHANTILLONS(IND.)
LOW	0058		L.005	L.1	L.002	L.001	.098	.2	L.5	MINIMUM
HIGH			.320	L.1	L.002	.010	.098	4.8	20.0	MAXIMUM
AVERAGE			.089*			.002*		2.9	4.0*	MOYENNE
STD.DEV.			.072*			.002*		.8	4.0*	ECART-TYPE
PERCENT:10TH			.020			L.001		1.9	L.0	10 <sup>e</sup> PERCNT
25TH			.040			L.001		2.3	2.0	25 <sup>e</sup>
MEDIAN 50TH			.070	L.1		L.001		3.0	2.0	50 <sup>e</sup> MEDIANE
75TH			.100			.003		3.5	4.0	75 <sup>e</sup>
90TH			.230			.006		3.7	8.0	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07GA0001** LAT. **53 D 57 M**LONG. **119 D 9 M**UTM **11 358000E 5980000 N**  
MAY 27, 1970 TO/À MAY 14, 1974

SMOKY RIVER ABOVE HELLS CREEK, ALBERTA

	SUBM ID	06711L CHLORO- PHYLL A MG/L	09105L FLUORIDE DISSOLVED F MG/L	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23301P VANADIUM EXTRBLE. V MG/L	25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	
SAMPLES(FLAGS)	0058		36(1)	3(2)		3(0)	3(3)	36(35)	5(2)	ECHANTILLONS(IND.)
LOW	0004		L.05	L.005		1.3	L.05	L.01	L.01	MINIMUM
HIGH			.17	.005		2.0	L.05	.01	.04	MAXIMUM
AVERAGE			.12*	.005*		1.567		.010*	.03*	MOYENNE
STD.DEV.			.04*	.000*		.379		.000*	.02*	ECART-TYPE
PERCNT:10TH			.06					L.01		10 <sup>e</sup> PERCNT
25TH			.08					L.010	L.01	25 <sup>e</sup>
MEDIAN 50TH			.12	L.005		1.4	L.05	L.010	.03	50 <sup>e</sup> MEDIANE
75TH			.15					L.010	.04	75 <sup>e</sup>
90TH			.17					L.01		90 <sup>e</sup>
SECONDARY CODE								04L	04L	CODE DE SECOURS

	SUBM ID	24302P CHROMIUM EXTRBLE. CR MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	
SAMPLES(FLAGS)	0058	3(3)	3(0)	3(3)	3(3)	4(4)	4(3)	1(1)	3(0)	ECHANTILLONS(IND.)
LOW		L.010	.98	L.01	L.01	L.001	L.001	L.005	.21	MINIMUM
HIGH		L.010	1.23	L.01	L.01	L.01	L.01	L.005	.30	MAXIMUM
AVERAGE			1.120				.004*		.25	MOYENNE
STD.DEV.			.128				.004*		.05	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH						L.001	L.001			25 <sup>e</sup>
MEDIAN 50TH		L.010	1.15	L.01	L.01	L.001	.002*		.25	50 <sup>e</sup> MEDIANE
75TH						L.005	.007*			75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P	01P	06L	04L			CODE DE SECOURS

	SUBM ID	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	48302P CADMIUM EXTRBLE. CD MG/L	51301P ANTIMONY EXTRBLE. SB MG/L	56301P BARIUM EXTRBLE. BA MG/L	80311P MERCURY EXTRBLE. HG UG/L	81302P THALLIUM EXTRBLE. TL MG/L	82302P LEAD EXTRBLE. PB MG/L	
SAMPLES(FLAGS)		3(3)	3(3)	3(3)	3(3)	3(3)		3(3)	3(3)	ECHANTILLONS(IND.)
LOW		L.05	L.01	L.01	L.4	L.1		L.2	L.001	MINIMUM
HIGH		L.05	L.01	L.01	L.50	L.1		L.2	L.001	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		L.05	L.01	L.01	L.40	L.1		L.2	L.001	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P				01P		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 00AL07GA0002 LAT. 53 D 53M 39 S LONG. 119 D 19M 18 S

UTM 11 347400E 5974000 N  
AUG 28 1973 TO/A JUN 11 1975

SMOKY RIVER NEAR GRANDE CACHE ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG L	CAC03 MG L	REL UNITS	JTU	PH UNITS	CAC03 MG L	PH UNITS	
SAMPLES(FLAGS)	0003	7(0)	7(0)	6(0)	7(2)	7(0)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW		170.	97.	101.	L5.	.5	7.8	62.7	-.4	MINIMUM
HIGH		610.	376.	328.	30.	9.3	8.3	165.	.7	MAXIMUM
AVERAGE		312.	188.	177.0	11.*	4.9		96.0		MOYENNE
STD.DEV.		160.	107.	94.5	9.*	3.0		37.0		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		204.	114.	109.	L5.	2.2	7.8	67.	-.3	25 <sup>e</sup>
MEDIAN 50TH		260.	146.	131.0	5.	4.8	7.9	80.0	.1	50 <sup>e</sup> MEDIANE
75TH		455.	304.	262.	15.	6.9	8.2	126.	.3	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HC03 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0003	7(0)	7(0)	6(0)	7(0)	7(0)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW		.3	1.1	28.	7.1	0.	76.	.3	26.	MINIMUM
HIGH		.7	4.1	98.0	20.2	0.	201.	1.8	152.	MAXIMUM
AVERAGE		.4	2.0	50.3	11.7	0.	117.	.8	69.3	MOYENNE
STD.DEV.		.2	1.1	28.9	5.5	0.	45.	.5	50.6	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.3	1.2	30.0	7.5	0.	82.	.4	36.	25 <sup>e</sup>
MEDIAN 50TH		.4	1.4	36.0	8.8	0.	98.	.7	48.	50 <sup>e</sup> MEDIANE
75TH		.6	2.6	74.	18.8	0.	154.	.9	132.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE								06L	06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0003	7(1)	7(1)				7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW		.1	L.001				.003	2.1	2.0	MINIMUM
HIGH		.5	.080				.080	4.7	4.0	MAXIMUM
AVERAGE		.3*	.039*				.018	3.0	2.6	MOYENNE
STD.DEV.		.2*	.027*				.027	.9	1.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.1	.02				.004	2.2	2.0	25 <sup>e</sup>
MEDIAN 50TH		.2	.04				.011	2.6	2.	50 <sup>e</sup> MEDIANE
75TH		L.5	.06				.013	3.6	4.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		02L					06L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07GA0002** LAT. **53 D 53 M 39 S** LONG. **119 D 19 M 18 S**UTM **11 347400E 5974000 N**  
SEP 14, 1972 TO/A JUN 11, 1975

SMOKY RIVER NEAR GRANDE CACHE, ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
	SUBM ID	MG/L	F MG/L	LI MG/L	B MG/L	AL MG/L	V MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b>	0003	7(5)	7(1)	2(2)	7(1)	9(3)	2(2)		9(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0103	<b>L.001</b>	<b>L.05</b>	<b>L.005</b>	<b>L.02</b>	<b>.005</b>	<b>L.05</b>		<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.025</b>	<b>.22</b>	<b>L.005</b>	<b>.11</b>	<b>.32</b>	<b>L.05</b>		<b>.03</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.0069*</b>	<b>.10*</b>		<b>.04*</b>	<b>.116*</b>			<b>.01*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.0083*</b>	<b>.06*</b>		<b>.03*</b>	<b>.083*</b>			<b>.01*</b>	<b>ECART-TYPE</b>

<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.001</b>	<b>.06</b>		<b>.02</b>	<b>L.10</b>			<b>L.01</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.005</b>	<b>.07</b>	<b>L.005</b>	<b>.04</b>	<b>.10</b>	<b>L.0500</b>		<b>L.01</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.006</b>	<b>.16</b>		<b>.05</b>	<b>.11</b>			<b>L.01</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>						<b>05P</b>				<b>CODE DE SECOURS</b>

		24302P CHROMIUM EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	
	SUBM ID	CR MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	
<b>SAMPLES(FLAGS)</b>	0003	9(9)	9(1)	9(3)	9(5)	9(4)	9(0)	6(5)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0103	<b>L.010</b>	<b>L.04</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>.001</b>	<b>L.0005</b>	<b>.14</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.015</b>	<b>.85</b>	<b>.013</b>	<b>.011</b>	<b>.004</b>	<b>.007</b>	<b>L.005</b>	<b>1.05</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.256*</b>	<b>.004*</b>	<b>.004*</b>	<b>.002*</b>	<b>.003</b>	<b>.0012*</b>	<b>.44</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.271*</b>	<b>.004*</b>	<b>.004*</b>	<b>.001*</b>	<b>.002</b>	<b>.0018*</b>	<b>.32</b>	<b>ECART-TYPE</b>

<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.010</b>	<b>.08</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>.002</b>	<b>L.0005</b>	<b>.22</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.010</b>	<b>.19</b>	<b>.003</b>	<b>L.002</b>	<b>.001</b>	<b>.003</b>	<b>L.0005</b>	<b>.30</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.015</b>	<b>.22</b>	<b>.003</b>	<b>.005</b>	<b>.002</b>	<b>.004</b>	<b>.0005</b>	<b>.46</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>								<b>04L</b>		<b>CODE DE SECOURS</b>

		42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	
	SUBM ID	MO MG/L	AG MG/L	CD MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	
<b>SAMPLES(FLAGS)</b>	0003	8(8)	5(5)	9(8)	1(1)	9(8)	8(8)	2(2)	9(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0103	<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>L.50</b>	<b>L.0</b>	<b>L.05</b>	<b>L.10</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.10</b>	<b>L.01</b>	<b>.003</b>	<b>L.50</b>	<b>L.1</b>	<b>L.05</b>	<b>L.2</b>	<b>.007</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.001*</b>		<b>.1*</b>			<b>.003*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>.001*</b>		<b>.0*</b>			<b>.002*</b>	<b>ECART-TYPE</b>

<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.05</b>	<b>L.01</b>	<b>L.001</b>		<b>.1</b>	<b>L.05</b>		<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.05</b>	<b>L.01</b>	<b>L.001</b>		<b>L.1</b>	<b>L.05</b>	<b>L.15</b>	<b>L.004</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.10</b>	<b>L.01</b>	<b>L.001</b>		<b>L.1</b>	<b>L.05</b>		<b>L.004</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>							<b>01P</b>			<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07GE0001 LAT. 55 D 4 M 3 S LONG. 118 D 48 M 15 S

UTM 11 384800E 6103500 N  
AUG 19 1969 TO/A OCT 05 1977WAPITI RIVER AT HWY 40 SOUTH OF GRANDE  
PRAIRIE ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00213L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0003	17(0)	17(0)	8(0)	17(2)	17(0)	17(0)	17(0)	17(0)	ECHANTILLONS(IND.)
LOW	0056	196.	106.	117.	L5.	1.3	7.5	96.0	-.2	MINIMUM
HIGH	0103	665.	399.	196.	160.	240.	8.4	298.	1.0	MAXIMUM
AVERAGE		292.	164.	145.0	23.*	40.5		136.0		MOYENNE
STD.DEV.		108.	68.	27.5	38.*	59.7		47.1		ECART-TYPE
PERCNT:10TH		197.	108.		L5.	3.9	7.7	97.4	-.2	10 <sup>e</sup> PERCNT
25TH		228.	131.	125.5	5.	5.3	8.0	108.	.1	25 <sup>e</sup>
MEDIAN 50TH		271.	148.	135.5	10.	19.0	8.1	128.	.4	50 <sup>e</sup> MEDIANE
75TH		300.	167.	162.5	20.	47.	8.3	139.	.6	75 <sup>e</sup>
90TH		365.	212.		60.	120.	8.4	170.	.7	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0003	17(0)	17(0)	8(0)	9(0)	15(0)	15(0)	17(0)	17(0)	ECHANTILLONS(IND.)
LOW	0103	1.4	1.9	34.	6.6	0.	117.	.2	7.5	MINIMUM
HIGH	0056	.8	19.4	59.	12.4	0.	207.	3.0	75.	MAXIMUM
AVERAGE		.7	5.3	42.4	9.2	0.	153.	.7	20.9	MOYENNE
STD.DEV.		.3	4.0	8.7	2.3	0.	29.	.6	15.8	ECART-TYPE
PERCNT:10TH		.4	2.2			0.	119.	.3	8.0	10 <sup>e</sup> PERCNT
25TH		.5	3.1	36.0	7.1	0.	132.	.3	11.	25 <sup>e</sup>
MEDIAN 50TH		.6	4.6	39.8	8.5	0.	150.	.7	16.6	50 <sup>e</sup> MEDIANE
75TH		.7	6.1	47.5	11.8	0.	169.	.8	22.	75 <sup>e</sup>
90TH		.8	7.5			0.	201.	.9	34.	90 <sup>e</sup>
SECONDARY CODE										06L 06L 03L CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0003	17(5)	16(8)		1(1)		17(3)	17(0)	17(1)	ECHANTILLONS(IND.)
LOW	0056	L.1	L.001		L.002		L.003	2.0	L.5	MINIMUM
HIGH	0103	.9	.31		L.002		.73	10.5	15.	MAXIMUM
AVERAGE		.4*	.038*				.105*	3.7	5.9*	MOYENNE
STD.DEV.		.2*	.076*				.186*	1.9	4.6*	ECART-TYPE
PERCNT:10TH		L.1	L.005				L.005	2.6	1.	10 <sup>e</sup> PERCNT
25TH		.1	L.010				.01	2.8	3.	25 <sup>e</sup>
MEDIAN 50TH		.4	.010*				.040	3.3	4.	50 <sup>e</sup> MEDIANE
75TH		L.5	.025				.089	4.0	9.	75 <sup>e</sup>
90TH		.5	.09				.39	4.2	15.	90 <sup>e</sup>
SECONDARY CODE										02L 10L 05L CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07GE0001** LAT. **55 D 4 M 3 S** LONG. **118 D 48 M 15 S**UTM **11 384800E 6103500 N**

AUG 19, 1969 TO/A OCT 05, 1977

WAPITI RIVER AT HWY 40 SOUTH OF GRANDE  
PRAIRIE, ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED F	03301P LITHIUM EXTRBLE. LI	05105L BORON DISSOLVED B	13302P ALUMINUM EXTRBLE. AL	23301P VANADIUM EXTRBLE. V	25101L MANGANESE DISSOLVED MN	25304P MANGANESE EXTRBLE. MN	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0003</b>	<b>7(4)</b>	<b>17(2)</b>	<b>6(3)</b>	<b>18(0)</b>	<b>21(2)</b>	<b>12(7)</b>	<b>1(1)</b>	<b>22(8)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0103</b>	<b>L.001</b>	<b>L.05</b>	<b>L.005</b>	<b>.02</b>	<b>.006</b>	<b>L.001</b>	<b>L.010</b>	<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0056</b>	<b>.007</b>	<b>.15</b>	<b>.010</b>	<b>.17</b>	<b>4.8</b>	<b>.07</b>	<b>L.010</b>	<b>.44</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.0047*</b>	<b>.07*</b>	<b>.006*</b>	<b>.06</b>	<b>.694*</b>	<b>.0244*</b>		<b>.07*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.0021*</b>	<b>.02*</b>	<b>.002*</b>	<b>.05</b>	<b>1.140*</b>	<b>.0269*</b>		<b>.13*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			<b>L.05</b>		<b>.03</b>	<b>.052</b>	<b>L.001</b>		<b>L.01</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.003</b>	<b>.06</b>	<b>L.005</b>	<b>.03</b>	<b>L.10</b>	<b>.0010*</b>		<b>L.01</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.005</b>	<b>.07</b>	<b>.005*</b>	<b>.04</b>	<b>.31</b>	<b>.0090</b>		<b>.01</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.007</b>	<b>.08</b>	<b>.006</b>	<b>.07</b>	<b>.75</b>	<b>L.0500</b>		<b>.08</b>	<b>75<sup>e</sup></b>
<b>90TH</b>			<b>.08</b>		<b>.16</b>	<b>1.6</b>	<b>L.05</b>		<b>.20</b>	<b>90<sup>e</sup></b>
SECONDARY CODE						05P	02P			CODE DE SECOURS

		24302P CHROMIUM EXTRBLE. CR	26304P IRON EXTRBLE. FE	27302P COBALT EXTRBLE. CO	28302P NICKEL EXTRBLE. NI	29305P COPPER EXTRBLE. CU	30305P ZINC EXTRBLE. ZN	33103L ARSENIC DISSOLVED AS	38301P STRONTIUM EXTRBLE. SR	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0003</b>	<b>22(22)</b>	<b>21(2)</b>	<b>22(11)</b>	<b>22(9)</b>	<b>23(7)</b>	<b>22(2)</b>	<b>15(13)</b>	<b>22(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0056</b>	<b>L.010</b>	<b>L.04</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>.07</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0103</b>	<b>L.015</b>	<b>15.</b>	<b>.013</b>	<b>.023</b>	<b>.014</b>	<b>.043</b>	<b>.008</b>	<b>.40</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>1.572*</b>	<b>.004*</b>	<b>.006*</b>	<b>.003*</b>	<b>.007*</b>	<b>.0013*</b>	<b>.17</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>3.274*</b>	<b>.003*</b>	<b>.005*</b>	<b>.004*</b>	<b>.009*</b>	<b>.0022*</b>	<b>.07</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.010</b>	<b>.05</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>.001</b>	<b>L.0005</b>	<b>.11</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.010</b>	<b>.09</b>	<b>L.002</b>	<b>L.002</b>	<b>L.001</b>	<b>.003</b>	<b>L.0005</b>	<b>.13</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.015</b>	<b>.30</b>	<b>.002</b>	<b>.005</b>	<b>.001</b>	<b>.005</b>	<b>L.0005</b>	<b>.16</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.015</b>	<b>1.80</b>	<b>.005</b>	<b>.008</b>	<b>.005</b>	<b>.009</b>	<b>L.0005</b>	<b>.18</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>L.015</b>	<b>3.0</b>	<b>L.01</b>	<b>L.01</b>	<b>.008</b>	<b>.014</b>	<b>.005</b>	<b>.22</b>	<b>90<sup>e</sup></b>
SECONDARY CODE				01P	01P	06L	04L	04L		CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE. MO	47301P SILVER EXTRBLE. AG	48302P CADMIUM EXTRBLE. CD	51301P ANTIMONY EXTRBLE. SB	56301P BARIUM EXTRBLE. BA	80311P MERCURY EXTRBLE. HG	81302P THALLIUM EXTRBLE. TL	82302P LEAD EXTRBLE. PB	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0003</b>	<b>16(16)</b>	<b>10(10)</b>	<b>22(15)</b>	<b>5(4)</b>	<b>22(5)</b>	<b>14(14)</b>	<b>6(6)</b>	<b>22(16)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0103</b>	<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>.031</b>	<b>.1</b>	<b>L.05</b>	<b>L.10</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.10</b>	<b>L.01</b>	<b>L.01</b>	<b>L.50</b>	<b>.3</b>	<b>L.05</b>	<b>L.2</b>	<b>.010</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.002*</b>	<b>.306*</b>	<b>.1*</b>			<b>.004*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>.003*</b>	<b>.189*</b>	<b>.1*</b>			<b>.003*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.05</b>	<b>L.01</b>	<b>L.001</b>		<b>L.1</b>	<b>L.05</b>		<b>L.001</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>L.20</b>	<b>L.1</b>	<b>L.05</b>	<b>L.10</b>	<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>L.40</b>	<b>.1</b>	<b>L.05</b>	<b>L.20</b>	<b>L.004</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.10</b>	<b>L.01</b>	<b>.001</b>	<b>L.40</b>	<b>.2</b>	<b>L.05</b>	<b>L.2</b>	<b>.004</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>L.10</b>	<b>L.01</b>	<b>.003</b>		<b>.2</b>	<b>L.05</b>		<b>.007</b>	<b>90<sup>e</sup></b>
SECONDARY CODE				01P	02P			01P		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07GF0008 LAT. 55 D 8 M 30 S LONG. 118 D 10 M 30 S

UTM 11 425100 6111000 N

AUG 27 1973 TO/A OCT 25 1973

SIMONETTE RIVER NEAR GOODWIN ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0103	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW		289.	160.	146.	70.	27.0	8.1	141.	.5	MINIMUM
HIGH		352.	193.	174.	110.	35.0	8.3	169.	.7	MAXIMUM
AVERAGE		321.	176.	160.0	90.	31.0		155.0		MOYENNE
STD.DEV.		45.	23.	19.8	28.	5.7		19.8		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		321.	176.	160.0	90.	31.0	8.2	155.0	.6	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBON. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0103	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW		1.1	8.3	47.0	7.0	0.	172.	.6	11.0	MINIMUM
HIGH		1.4	12.0	53.0	10.1	0.	206.	1.3	14.0	MAXIMUM
AVERAGE		1.2	10.2	50.0	8.5	0.	189.	1.0	12.5	MOYENNE
STD.DEV.		.2	2.6	4.2	2.2	0.	24.	.5	2.1	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.2	10.1	50.0	8.5	0.	189.	1.0	12.5	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0103	2(0)	2(2)				2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW		.6	L.001				.010	6.4	10.0	MINIMUM
HIGH		.7	L.001				.024	6.8	15.0	MAXIMUM
AVERAGE		.7					.017	6.6	12.5	MOYENNE
STD.DEV.		.1					.010	.3	3.5	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		.7	L.001				.017	6.6	12.5	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00AL07GF0008** LAT. **55 D 8 M 30 S** LONG. **118 D 10 M 30 S**

UTM **11 425100E 6111000N**  
AUG 04, 1971 TO/A OCT 25, 1973

SIMONETTE RIVER NEAR GOODWIN, ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE F	03301P LITHIUM EXTRBLE. LI	05105L BORON DISSOLVED B	13302P ALUMINUM EXTRBLE. AL	23301P VANADIUM EXTRBLE. V	25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L			
<b>SAMPLES(FLAGS)</b>	0103	2(0)	2(2)	5(0)	4(0)	7(2)	4(4)		7(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		.003	L.05	.006	.06	L.10	L.05		.02	<b>MINIMUM</b>
<b>HIGH</b>		.018	L.05	.012	.10	.67	L.05		.05	<b>MAXIMUM</b>
<b>AVERAGE</b>		.0105		.010	.08	.333*			.03	<b>MOYENNE</b>
<b>STD.DEV.</b>		.0106		.002	.02	.249*			.01	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				.009	.06	L.10	L.0500		.02	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.0105	L.05	.010	.07	.18	L.0500		.03	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				.011	.09	.62	L.0500		.05	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		24302P CHROMIUM EXTRBLE. CR	26304P IRON EXTRBLE. FE	27302P COBALT EXTRBLE. CO	28302P NICKEL EXTRBLE. NI	29305P COPPER EXTRBLE. CU	30305P ZINC EXTRBLE. ZN	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBLE. SR	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0103	7(7)	6(0)	7(4)	7(3)	7(2)	7(1)	1(1)	7(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		L.010	.24	L.001	L.001	L.001	L.001	L.005	.11	<b>MINIMUM</b>
<b>HIGH</b>		L.010	1.80	L.01	L.01	.005	.007	L.005	.20	<b>MAXIMUM</b>
<b>AVERAGE</b>			.787	.004*	.006*	.002*	.003*		.16	<b>MOYENNE</b>
<b>STD.DEV.</b>			.627	.004*	.003*	.001*	.002*		.03	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.010	.26	L.001	.004	L.001	.001		.13	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.010	.660	.002	.005	.001	.002		.16	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		L.010	1.10	L.01	L.01	.002	.005		.18	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE. MO	47301P SILVER EXTRBLE. AG	48302P CADMIUM EXTRBLE. CD	51301P ANTIMONY EXTRBLE. Sb	56301P BARIUM EXTRBLE. BA	80311P MERCURY EXTRBLE. HG	81302P THALLIUM EXTRBLE. TL	82302P LEAD EXTRBLE. PB	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0103	6(6)	7(7)	7(6)	4(3)	7(2)	4(4)	5(5)	7(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		L.05	L.01	L.001	.032	L.1	L.05	L.10	L.001	<b>MINIMUM</b>
<b>HIGH</b>		L.05	L.01	L.01	L.50	.2	L.05	L.2	L.001	<b>MAXIMUM</b>
<b>AVERAGE</b>				.004*	.333*	.1*				<b>MOYENNE</b>
<b>STD.DEV.</b>				.004*	.206*	.0*				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.05	L.01	L.001	.216*	L.1	L.05	L.2	L.001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.05	L.01	L.001	L.400	.1	L.05	L.2	L.001	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		L.05	L.01	L.01	L.450	.1	L.05	L.2	L.001	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07GG0001 LAT. 54 D 44 M 24 S LONG. 117 D 10 M 45 S

UTM 11 488500E 6065700 N  
AUG 13 1969 TO: A JUN 07 1974LITTLE SMOKY RIVER AT HWY 43 LITTLE  
SMOKY ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00211L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0103	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	0003	166.	92.	87.0	30.	4.0	7.6	81.0	-.2	MINIMUM
HIGH	0056	362.	191.	179.	80.	12.0	8.1	180.	.5	MAXIMUM
AVERAGE		256.	136.	123.4	57.	7.0		126.0		MOYENNE
STD.DEV.		87.	46.	37.8	19.	3.1		43.8		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		197.	106.	97.0	50.	5.0	7.9	97.0	.1	25 <sup>e</sup>
MEDIAN 50TH		220.	110.	110.	60.	6.9	8.0	107.	.1	50 <sup>e</sup> MEDIANE
75TH		334.	181.	144.	65.	7.2	8.1	165.	.1	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0103	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	0056	.1	3.5	23.0	2.9	0.	99.	.3	4.1	MINIMUM
HIGH	0003	.9	17.3	52.0	12.8	0.	219.	1.2	11.8	MAXIMUM
AVERAGE		.6	8.5	36.0	8.1	0.	154.	.6	6.6	MOYENNE
STD.DEV.		.3	5.9	11.7	4.3	0.	53.	.4	3.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.5	4.6	30.0	4.8	0.	118.	.4	5.0	25 <sup>e</sup>
MEDIAN 50TH		.7	5.1	31.0	8.3	0.	130.	.5	5.8	50 <sup>e</sup> MEDIANE
75TH		.7	12.0	44.0	11.9	0.	201.	.6	6.5	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE								06L	03L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0103	5(2)	5(3)		1(0)		5(1)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	0003	L.5	L.001		.007		L.005	4.1	4.0	MINIMUM
HIGH	0056	.5	.120		.007		.019	8.7	15.0	MAXIMUM
AVERAGE		.5*	.029*				.012*	5.6	10.4	MOYENNE
STD.DEV.		.0*	.051*				.006*	1.8	4.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.5	L.001				.009	4.7	10.0	25 <sup>e</sup>
MEDIAN 50TH		.5	L.005				.010	4.7	11.0	50 <sup>e</sup> MEDIANE
75TH		.5	.020				.017	5.9	12.0	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		02L	05L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00AL07GG0001** LAT. **54 D 44 M 24 S** LONG. **117 D 10 M 45 S**

UTM **11 488500E 6065700 N**  
AUG 13, 1969 TO/À JUN 07, 1974

LITTLE SMOKY RIVER AT HWY 43, LITTLE  
SMOKY, ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED F	03301P LITHIUM EXTRBLE. LI	05105L BORON DISSOLVED B	13302P ALUMINUM EXTRBLE. AL	23301P VANADIUM EXTRBLE. V	25101L MANGANESE DISSOLVED MN	25304P MANGANESE EXTRBLE. MN	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0103	3(1)	5(2)	6(5)	6(0)	10(5)	5(5)	1(1)	9(2)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	<b>L.001</b>	<b>L.05</b>	<b>L.005</b>	<b>.06</b>	<b>L.10</b>	<b>L.05</b>	<b>L.010</b>	<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>	0056	<b>.036</b>	<b>.10</b>	<b>.006</b>	<b>.15</b>	<b>.93</b>	<b>L.05</b>	<b>L.010</b>	<b>.06</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.0153*</b>	<b>.07*</b>	<b>.005*</b>	<b>.09</b>	<b>.247*</b>			<b>.03*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.0183*</b>	<b>.03*</b>	<b>.000*</b>	<b>.03</b>	<b>.254*</b>			<b>.02*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>						<b>L.100</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>L.05</b>	<b>L.005</b>	<b>.08</b>	<b>L.10</b>	<b>L.05</b>		<b>.01</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.009</b>	<b>.06</b>	<b>L.005</b>	<b>.08</b>	<b>.165*</b>	<b>L.05</b>		<b>.03</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>.10</b>	<b>L.005</b>	<b>.10</b>	<b>.25</b>	<b>L.05</b>		<b>.04</b>	<b>75<sup>e</sup></b>
<b>90TH</b>						<b>.625</b>				<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		24302P CHROMIUM EXTRBLE. CR	26304P IRON EXTRBLE. FE	27302P COBALT EXTRBLE. CO	28302P NICKEL EXTRBLE. NI	29305P COPPER EXTRBLE. CU	30305P ZINC EXTRBLE. ZN	33103L ARSENIC DISSOLVED AS	38301P STRONTIUM EXTRBLE. SR	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0103	10(9)	9(0)	10(5)	10(5)	11(5)	11(3)	3(1)	10(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	<b>L.010</b>	<b>.23</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>.07</b>	<b>MINIMUM</b>
<b>HIGH</b>	0056	<b>.015</b>	<b>.92</b>	<b>.016</b>	<b>.010</b>	<b>L.01</b>	<b>L.01</b>	<b>.014</b>	<b>.18</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.010*</b>	<b>.523</b>	<b>.005*</b>	<b>.005*</b>	<b>.003*</b>	<b>.004*</b>	<b>.0065*</b>	<b>.12</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.002*</b>	<b>.236</b>	<b>.005*</b>	<b>.004*</b>	<b>.003*</b>	<b>.003*</b>	<b>.0069*</b>	<b>.03</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.010</b>		<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>		<b>.08</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.010</b>	<b>.33</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>.001</b>		<b>.10</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.010</b>	<b>.48</b>	<b>.002</b>	<b>.004</b>	<b>.001</b>	<b>.002</b>	<b>.005</b>	<b>.12</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.010</b>	<b>.72</b>	<b>L.01</b>	<b>L.01</b>	<b>.004</b>	<b>.006</b>		<b>.14</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.012*</b>		<b>.013*</b>	<b>.010*</b>	<b>.006</b>	<b>.009</b>		<b>.17</b>	<b>90<sup>e</sup></b>
SECONDARY CODE				01P	01P	06L	04L	04L		CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE. MO	47301P SILVER EXTRBLE. AG	48302P CADMIUM EXTRBLE. CD	51301P ANTIMONY EXTRBLE. SB	56301P BARIUM EXTRBLE. BA	80311P MERCURY EXTRBLE. HG	81302P THALLIUM EXTRBLE. TL	82302P LEAD EXTRBLE. PB	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0103	9(9)	10(10)	10(8)	5(4)	10(6)	6(6)	6(6)	9(8)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>.011</b>	<b>L.1</b>	<b>L.05</b>	<b>L.10</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.05</b>	<b>L.01</b>	<b>L.01</b>	<b>L.50</b>	<b>.1</b>	<b>L.05</b>	<b>L.2</b>	<b>.004</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.003*</b>	<b>.302*</b>	<b>.1*</b>			<b>.001*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>.004*</b>	<b>.196*</b>	<b>.0*</b>			<b>.001*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			<b>L.01</b>	<b>L.001</b>		<b>L.1</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>L.20</b>	<b>L.1</b>	<b>L.05</b>	<b>L.10</b>	<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>L.40</b>	<b>L.1</b>	<b>L.05</b>	<b>L.20</b>	<b>L.001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.05</b>	<b>L.01</b>	<b>.002</b>	<b>L.40</b>	<b>.1</b>	<b>L.05</b>	<b>L.2</b>	<b>L.001</b>	<b>75<sup>e</sup></b>
<b>90TH</b>			<b>L.01</b>	<b>L.010</b>		<b>.1</b>				<b>90<sup>e</sup></b>
SECONDARY CODE				01P	02P			01P		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07GG0004 LAT. 54 D 45M 9 S LONG. 117 D 12M 9 S

UTM 11 487000E 6067000N

AUG 12 1969 TO/A JAN 16 1974

WASKAHIGAN RIVER AT HWY 43 BRIDGE

0.1 MILE ABOVE LITTLE SMOKY RIVER

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USF CM								ECHANTILLONS(IND.)
LOW	0056	4(0)	4(0)	4(0)	3(0)	4(0)	4(0)	4(0)		MINIMUM
HIGH	0103	204.	117.	100.	80.	8.4	7.6	97.4		MAXIMUM
AVERAGE		415.	227.	167.	110.	92.0	8.1	200.		MOYENNE
STD.DEV.		274.	153.	125.0	97.	33.8		130.1		ECART-TYPE
		96.	51.	29.1	15.	39.2		48.3		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		220.	121.	108.0		10.7	7.7	97.7		25 <sup>e</sup>
MEDIAN 50TH		238.	134.	116.5	100.	17.5	7.8	111.5		50 <sup>e</sup> MEDIANE
75TH		328.	185.	142.0		57.0	8.0	162.5		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED MG/L	11103L SODIUM DISSOLVED MG/L	20101L CALCIUM DISSOLVED MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG/L	06301L CARBONATE (CALCD.) MG/L	06201L BICARBONT. (CALCD.) MG/L	17203L CHLORIDE DISSOLVED MG/L	16304L SULPHATE DISSOLVED MG/L	
SAMPLES(FLAGS)	SUBM ID	K	NA	CA	MG	CO3	HCO3	CL	SO4	ECHANTILLONS(IND.)
LOW	0056	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	MINIMUM
HIGH		.5	3.8	34.2	3.1	0.	119.	.3	10.0	MAXIMUM
AVERAGE		1.3	28.0	52.0	9.0	0.	244.	1.4	20.0	MOYENNE
STD.DEV.		.9	13.5	39.0	6.7	0.	159.	.8	14.0	ECART-TYPE
		.4	10.5	8.6	2.5	0.	59.	.5	4.9	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.7	6.0	34.6	5.1	0.	119.	.4	10.0	25 <sup>e</sup>
MEDIAN 50TH		1.0	11.1	35.0	7.3	0.	136.	.7	13.0	50 <sup>e</sup> MEDIANE
75TH		1.2	21.0	43.5	8.2	0.	198.	1.1	18.0	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										03L CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0056	4(1)	4(2)		1(1)		4(0)	4(0)	4(0)	MINIMUM
HIGH		L.5	L.001		L.002		.007	3.5	2.0	MAXIMUM
AVERAGE		.8	.120		L.002		.121	8.8	19.0	MOYENNE
STD.DEV.		.7*	.036*				.061	6.3	13.5	ECART-TYPE
		.2*	.057*				.054	2.2	7.9	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.5*	L.001				.016	4.8	8.5	25 <sup>e</sup>
MEDIAN 50TH		.7	.012*				.058	6.5	16.5	50 <sup>e</sup> MEDIANE
75TH		.8	.072				.106	7.9	18.5	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										05L CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07GG0004 LAT. 54 D 45M 9 S LONG. 117 D 12M 9 S

UTM 11 487000E 6067000 N  
AUG 12, 1969 TO/A JAN 16, 1974WASKAHIGAN RIVER AT HWY 43 BRIDGE  
0.1 MILE ABOVE LITTLE SMOKY RIVER.

	06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
SUBM ID	MG/L	F MG/L	LI MG/L	B MG/L	AL MG/L	V MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0103	2(1)	4(2)	3(0)	4(0)	6(2)	3(3)	1(1)	5(0)	ECHANTILLONS(IND.)
LOW 0056	L.001	L.05	.009	.09	L.10	L.05	L.010	.03	MINIMUM
HIGH	.045	.09	.015	.13	.33	L.05	L.010	.05	MAXIMUM
AVERAGE	.0230*	.07*	.012	.11	.178*			.04	MOYENNE
STD.DEV.	.0311*	.02*	.003	.02	.097*			.01	ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

10<sup>e</sup> PERCNT25<sup>e</sup>50<sup>e</sup> MEDIANE75<sup>e</sup>90<sup>e</sup>

CODE DE SECOURS

	24302P CHROMIUM EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	
SUBM ID	CR MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	
SAMPLES(FLAGS) 0103	6(5)	5(0)	6(4)	6(3)	7(2)	7(3)	1(0)	6(0)	ECHANTILLONS(IND.)
LOW 0056	L.010	.47	L.001	L.001	L.001	L.001	.005	.10	MINIMUM
HIGH	.016	.98	L.01	L.01	.061	.012	.005	.25	MAXIMUM
AVERAGE	.011*	.718	.004*	.006*	.011*	.005*		.17	MOYENNE
STD.DEV.	.002*	.212	.004*	.004*	.022*	.005*		.05	ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

10<sup>e</sup> PERCNT25<sup>e</sup>50<sup>e</sup> MEDIANE75<sup>e</sup>90<sup>e</sup>

CODE DE SECOURS

	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	
SUBM ID	MO MG/L	AG MG/L	CD MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	
SAMPLES(FLAGS) 0103	6(6)	6(6)	6(6)	3(2)	6(6)	4(4)	3(3)	5(4)	ECHANTILLONS(IND.)
LOW	L.05	L.01	L.001	.031	L.1	L.05	L.2	L.001	MINIMUM
HIGH	L.05	L.01	L.01	L.40	L.1	L.05	L.2	.003	MAXIMUM
AVERAGE				.277*				.001*	MOYENNE
STD.DEV.				.213*				.001*	ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

10<sup>e</sup> PERCNT25<sup>e</sup>50<sup>e</sup> MEDIANE75<sup>e</sup>90<sup>e</sup>

01P

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00AL07GH0003 LAT. 55 D 22 M 42 S LONG. 116 D 55 M 36 S

UTM 11 504700E 6136700 N  
AUG 12 1969 TO/A JUN 04 1974LITTLE SMOKY RIVER SOUTH OF GUY  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE CM								
SAMPLES(FLAGS)	0103	4(0)	4(0)	4(0)	3(0)	4(0)	4(0)	4(0)		ECHANTILLONS(IND.)
LOW	0056	174.	99.	81.0	125.	27.0	7.7	83.0		MINIMUM
HIGH	0003	210.	118.	101.	140.	78.0	8.0	98.0		MAXIMUM
AVERAGE		192.	106.	91.8	135.	54.8		89.8		MOYENNE
STD.DEV.		18.	8.	8.8	9.	24.3		7.4		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		177.	101.	85.0		34.5	7.8	83.5		25 <sup>e</sup>
MEDIAN 50TH		191.	104.	92.7	140.	57.0	7.9	89.0		50 <sup>e</sup> MEDIANE
75TH		207.	111.	98.7		75.0	8.0	96.0		75 <sup>e</sup>
90TH										90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0003	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW	0056	.9	5.6	27.0	3.3	0.	101.	.5	5.3	MINIMUM
HIGH	0103	1.5	8.1	34.0	4.7	0.	119.	2.0	11.0	MAXIMUM
AVERAGE		1.1	6.6	30.5	3.8	0.	109.	1.3	9.0	MOYENNE
STD.DEV.		.3	1.1	2.9	.6	0.	9.	.6	2.5	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.9	5.8	28.5	3.4	0.	102.	.9	7.5	25 <sup>e</sup>
MEDIAN 50TH		1.0	6.3	30.4	3.7	0.	109.	1.4	9.9	50 <sup>e</sup> MEDIANE
75TH		1.3	7.3	32.4	4.3	0.	117.	1.8	10.5	75 <sup>e</sup>
90TH										90 <sup>e</sup>

SECONDARY CODE

06L

03L

CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0103	4(1)	4(1)		1(0)		4(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW	0056	L.5	L.005		.007		.040	4.8	12.0	MINIMUM
HIGH	0003	.9	.030		.007		.104	6.7	34.0	MAXIMUM
AVERAGE		.7*	.023*				.076	5.9	20.8	MOYENNE
STD.DEV.		.2*	.012*				.029	.9	9.6	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.5*	.015*				.054	5.1	14.0	25 <sup>e</sup>
MEDIAN 50TH		.7	.028				.080	6.0	18.5	50 <sup>e</sup> MEDIANE
75TH		.9	.030				.099	6.7	27.5	75 <sup>e</sup>
90TH										90 <sup>e</sup>

SECONDARY CODE

02L

05L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07GH0003 LAT. 55 D 22 M 42 S LONG. 116 D 55 M 36 S

UTM 11 504700E 6136700 N  
AUG 12, 1969 TO/À JUN 04, 1974LITTLE SMOKY RIVER SOUTH OF GUY,  
ALBERTA

	06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
SUBM ID	MG/L	F MG/L	LI MG/L	B MG/L	AL MG/L	V MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS)	0103 3(0)	4(1)	7(0)	5(0)	9(0)	6(5)	1(1)	10(1)	ECHANTILLONS(IND.)
LOW	0056 .010	L.05	.008	.10	.13	L.05	L.010	L.01	MINIMUM
HIGH	0003 .013	.08	.033	.22	2.2	.13	L.010	.80	MAXIMUM
AVERAGE	.0117	.06*	.013	.15	.778	.0633*		.12*	MOYENNE
STD.DEV.	.0015	.01*	.009	.06	.776	.0327*		.24*	ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

.01\* 10<sup>e</sup> PERCNT.03 25<sup>e</sup>.04 50<sup>e</sup> MEDIANE.07 75<sup>e</sup>.48 90<sup>e</sup>

CODE DE SECOURS

	24302P CHROMIUM EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	
SUBM ID	CR MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	
SAMPLES(FLAGS)	0103 10(9)	9(0)	10(5)	10(4)	11(3)	11(1)	6(2)	10(0)	ECHANTILLONS(IND.)
LOW	0003 L.010	.45	L.001	L.001	L.001	.001	L.0005	.10	MINIMUM
HIGH	0056 .030	20.4	.017	.023	.027	.05	.020	.20	MAXIMUM
AVERAGE	.012*	4.183	.007*	.010*	.006*	.014*	.0094*	.13	MOYENNE
STD.DEV.	.006*	6.410	.005*	.006*	.008*	.018*	.0084*	.03	ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

.11 10<sup>e</sup> PERCNT.11 25<sup>e</sup>.13 50<sup>e</sup> MEDIANE.15 75<sup>e</sup>.18 90<sup>e</sup>

CODE DE SECOURS

	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	
SUBM ID	MO MG/L	AG MG/L	CD MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	
SAMPLES(FLAGS)	0103 9(9)	10(10)	10(7)	5(4)	10(6)	4(4)	7(7)	10(8)	ECHANTILLONS(IND.)
LOW	0003 L.05	L.01	L.001	.008	L.1	L.05	L.10	L.001	MINIMUM
HIGH	L.05	L.01	L.01	L.50	.4	L.05	L.2	.027	MAXIMUM
AVERAGE			.004*	.302*	.1*			.005*	MOYENNE
STD.DEV.			.004*	.197*	.1*			.009*	ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

L.01 10<sup>e</sup> PERCNTL.01 25<sup>e</sup>L.001 50<sup>e</sup> MEDIANEL.001 75<sup>e</sup>.021 90<sup>e</sup>

01P

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 00AL07GJ0001 LAT 55 D 42 M 57 S LONG. 117 D 37 M 18 S

UTM 11 460900E 6174400N  
JAN 27 1967 TO: A DEC 17 1979

## SMOKY RIVER AT WATINO, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CAC03 MG/L	REL UNITS	JTU	PH UNITS	CAC03 MG/L	PH UNITS	
SAMPLES(FLAGS)	0001	104(0)	100(0)	71(0)	99(0)	105(2)	104(0)	101(0)	99(0)	ECHANTILLONS(IND.)
LOW	0033	174.	94.	85.1	5.	1.1	7.3	67.	-.4	MINIMUM
HIGH	0003	781.	475.	250.	450.	1000.	8.5	310.	1.0	MAXIMUM
AVERAGE	0479	331.	181.	155.7	49.	75.8*		127.1		MOYENNE
STD.DEV.		128.	74.	54.2	60.	151.6*		45.1		ECART-TYPE
PERCNT:10TH		199.	109.	98.6	5.	3.3	7.7	84.2	-.1	10 <sup>e</sup> PERCNT
25TH		225.	119.	105.	10.	6.5	7.9	93.9	.1	25 <sup>e</sup>
MEDIAN 50TH		282.	151.	137.	30.	35.0	8.1	111.	.2	50 <sup>e</sup> MEDIANE
75TH		451.	252.	215.	65.	81.0	8.2	160.	.5	75 <sup>e</sup>
90TH		498.	279.	235.	100.	150.	8.3	190.	.8	90 <sup>e</sup>
SECONDARY CODE								06L		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBON. (CALCD.)	16306L SULPHATE DISSOLVED	17203L CHLORIDE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	CL MG/L	
SAMPLES(FLAGS)	0001	104(0)	103(0)	105(0)	59(0)	99(0)	99(0)	105(0)	104(0)	ECHANTILLONS(IND.)
LOW	0033	.1	.4	25.0	4.3	0.	82.	8.8	.2	MINIMUM
HIGH	0003	3.9	33.6	104.	29.5	3.	378.	99.	29.	MAXIMUM
AVERAGE	0479	1.0	8.8	46.47	11.7	0.	155.	36.2	3.3	MOYENNE
STD.DEV.		.7	6.6	16.75	5.1	0.	55.	20.7	4.9	ECART-TYPE
PERCNT:10TH		.5	2.9	29.4	6.7	0.	103.	14.	.4	10 <sup>e</sup> PERCNT
25TH		.6	4.0	32.3	7.6	0.	114.	19.9	.7	25 <sup>e</sup>
MEDIAN 50TH		.9	6.7	40.6	10.3	0.	135.	30.4	1.5	50 <sup>e</sup> MEDIANE
75TH		1.2	11.6	61.6	15.5	0.	195.	53.	2.8	75 <sup>e</sup>
90TH		1.7	19.	69.	18.1	0.	232.	67.	10.	90 <sup>e</sup>
SECONDARY CODE				01L	01L			03L 01L 04L	06L	CODE DE SECOURS

		07002L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07506L NITROGEN TOTAL AMMONIA	07651L NITROGEN DISSOLVED	07902L NITROGEN PARTICUL	15103L PHOSPHORUS TOTAL DISSOLVED	15256L PHOSPHORUS ORTHOPHOSPHATE	15314L PHOSPHORUS TOTAL INORG. PO4	
	SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	
SAMPLES(FLAGS)	0001	21(3)	99(21)	28(25)	21(0)	20(1)	21(3)	29(15)	3(2)	ECHANTILLONS(IND.)
LOW	0033	.1	L.001	.0	.08	.04	L.003	L.002	L.002	MINIMUM
HIGH	0003	1.9	1.90	.1	1.1	2.3	.064	.029	.007	MAXIMUM
AVERAGE	0479	.5*	.086*	.096*	.27	.304*	.012*	.006*	.004*	MOYENNE
STD.DEV.		.4*	.209*	.019*	.23	.520*	.014*	.005*	.003*	ECART-TYPE
PERCNT:10TH		.2	L.005	L.1	.10	.050	L.003	L.002		10 <sup>e</sup> PERCNT
25TH		.3	.01	L.100	.14	.065	.004	L.003		25 <sup>e</sup>
MEDIAN 50TH		L.5	.040	L.100	.22	.100	.009	L.003	L.002	50 <sup>e</sup> MEDIANE
75TH		.6	.090	L.100	.25	.330	.015	.007		75 <sup>e</sup>
90TH		.8	.160	L.1	.50	.740	.018	.010		90 <sup>e</sup>
SECONDARY CODE		01L	06L 10L	01L				57L 55L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07GJ0001 LAT. 55 D 42 M 57 S LONG. 117 D 37 M 18 S

UTM 11 460900E 6174400 N  
AUG 07, 1971 TO/A OCT 15, 1979

SMOKY RIVER AT WATINO, ALBERTA

		34102L SELENIUM DISSOLVED	38101L STRONTIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48101L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	51301P ANTIMONY EXTRBL.	
	SUBM ID	SE MG/L	SR MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	SB MG/L	
SAMPLES(FLAGS)	0003	21(17)		30(0)	24(24)	16(15)		28(23)	4(3)	ECHANTILLONS(IND.)
LOW	0103	L.0005		.14	L.05	L.00		L.001	.065	MINIMUM
HIGH	0479	.009		.70	L.10	L.01		L.01	L.40	MAXIMUM
AVERAGE	0001	.0009*		.28		.01*		.002*	.266*	MOYENNE
STD.DEV.		.0019*		.12		.00*		.002*	.164*	ECART-TYPE
PERCNT:10TH		L.0005		.16	L.05	L.00		L.001		10 <sup>e</sup> PERCNT
25TH		L.0005		.20	L.05	L.00		L.001	.132*	25 <sup>e</sup>
MEDIAN 50TH		L.0005		.26	L.10	L.01		L.001	L.300	50 <sup>e</sup> MEDIANE
75TH		L.0005		.35	L.10	L.01		.001*	L.400	75 <sup>e</sup>
90TH		.0005		.42	L.10	L.01		.003		90 <sup>e</sup>
SECONDARY CODE					01L			01P	02P	CODE DE SECOURS

		56301P BARIUM EXTRBL.	80011P MERCURY TOTAL	80111P MERCURY DISSOLVED	80313P MERCURY EXTRBL.	81101L THALLIUM DISSOLVED	81301P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	
	SUBM ID	BA MG/L	HG UG/L	HG UG/L	UG/L	TL MG/L	TL MG/L	PB MG/L	PB MG/L	
SAMPLES(FLAGS)	0001	27(6)	6(3)	1(0)	27(26)		7(7)	11(9)	33(25)	ECHANTILLONS(IND.)
LOW	0033	L.0	L.02	.05	L.02		L.10	L.001	L.001	MINIMUM
HIGH	0003	1.1	.07	.05	.09		L.2	L.05	.027	MAXIMUM
AVERAGE	0479	.2*	.03*		.04*			.020*	.006*	MOYENNE
STD.DEV.	0103	.2*	.02*		.02*			.024*	.006*	ECART-TYPE
PERCNT:10TH		.1			L.02			L.001	L.001	10 <sup>e</sup> PERCNT
25TH		.1	L.02		L.02		L.10	L.001	L.004	25 <sup>e</sup>
MEDIAN 50TH		.1	.02*		L.05		L.2	.004	L.004	50 <sup>e</sup> MEDIANE
75TH		.2	.04		L.05		L.2	L.05	L.01	75 <sup>e</sup>
90TH		.5			L.05			L.05	.012	90 <sup>e</sup>
SECONDARY CODE					11P		02P	01L	01L	CODE DE SECOURS

		92101L URANIUM DISSOLVED	36001L COLIFORMS TOTAL	36011L COLIFORMS FECAL	36102L FECAL STREP.	06535P PHENOLIC MATERIAL	06711L CHLORO- PHYLL A	06902L CARBON ORGANIC PARTICUL.	10711P NITA NITRILOTRI ACETIC AC.	
	SUBM ID	U MG/L	MPN NO/DL	MPN NO/DL	MF NO/DL	PHENOL MG/L	MG/L	C MG/L	H3NTA MG/L	
SAMPLES(FLAGS)	0001		24(2)	23(6)	25(6)	38(6)	9(3)	21(0)	1(1)	ECHANTILLONS(IND.)
LOW	0003		18.	L2.	L2.	L.001	L.001	.17	L.01	MINIMUM
HIGH	0479		1100.	400.	144.	.034	.048	40.6	L.01	MAXIMUM
AVERAGE			280.*	87.*	24.*	.005*	.0131*	4.429		MOYENNE
STD.DEV.			266.*	97.*	38.*	.006*	.0142*	9.154		ECART-TYPE
PERCNT:10TH			49.	L2.	L2.	L.001		.25		10 <sup>e</sup> PERCNT
25TH			75.	6.	2.	L.002	L.005	.45		25 <sup>e</sup>
MEDIAN 50TH			185.	G80.	4.	.003	.008	.76		50 <sup>e</sup> MEDIANE
75TH			391.	140.	22.	.005	.014	3.9		75 <sup>e</sup>
90TH			600.	180.	94.	.014		12.1		90 <sup>e</sup>
SECONDARY CODE			02L 02F	12L 12F	02F 01L	32P				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79

PEACE RIVER SUB BASIN

STATION 00AL07GJ0001 LAT 55 D 42M 57 S LONG. 117 D 37M 18 S

UTM 11 460900E 6174400N  
JAN 27 1967 TO/A DEC 17 1979

SMOKY RIVER AT WATINO ALBERTA

		15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	08101P OXYGEN DISSOLVED DO	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06104L CARBON DISSOLVED ORGANIC	06152L CARBON DISSOLVED INORGANIC	
	SUBM ID	P MG/L	P MG/L	SiO2 MG/L	O2 MG/L	C MG/L	C MG/L	C MG/L	C MG/L	
SAMPLES(FLAGS)	0001	12(3)	12(1)	99(0)	34(0)	27(0)	27(0)	25(0)	24(0)	ECHANTILLONS(IND.)
LOW	0033	L.001	L.005	1.9	7.9	3.0	15.0	2.0	15.	MINIMUM
HIGH	0003	.049	.22	9.3	13.4	37.0	71.	14.	47.	MAXIMUM
AVERAGE	0479	.014*	.044*	4.02	10.4	13.3	28.8	7.0	30.6	MOYENNE
STD.DEV.		.015*	.064*	1.27	1.5	8.4	13.0	3.3	9.7	ECART-TYPE
PERCNT:10TH		L.001	.007	2.5	8.5	6.0	17.0	3.	21.	10 <sup>e</sup> PERCNT
25TH		.002*	.007	3.0	9.2	8.	20.0	5.	22.5	25 <sup>e</sup>
MEDIAN 50TH		.009	.013	3.8	10.2	11.	26.	7.	26.5	50 <sup>e</sup> MEDIANE
75TH		.016	.046	4.9	11.7	16.	35.	8.	40.5	75 <sup>e</sup>
90TH		.038	.120	5.4	12.6	29.	45.	12.	44.	90 <sup>e</sup>
SECONDARY CODE		64L		05L	01S			01L	51L	CODE DE SECOURS

		03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24052L CHROMIUM DISSOLVED	24302P CHROMIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS)	0001	14(0)	25(0)	29(1)	20(10)		30(27)	19(18)	35(5)	ECHANTILLONS(IND.)
LOW	0033	.005	.04	.046	L.001		L.010	L.010	L.01	MINIMUM
HIGH	0003	.073	.20	8.1	.25		.070	.02	1.50	MAXIMUM
AVERAGE	0479	.013	.08	1.454*	.0277*		.016*	.011*	.163*	MOYENNE
STD.DEV.	0103	.018	.04	2.045*	.0562*		.011*	.002*	.327*	ECART-TYPE
PERCNT:10TH		.005	.05	.054	L.0010		L.010	L.01	L.010	10 <sup>e</sup> PERCNT
25TH		.006	.05	.15	L.0010		L.010	L.010	.016	25 <sup>e</sup>
MEDIAN 50TH		.007	.06	.76	.0030		L.015	L.010	.036	50 <sup>e</sup> MEDIANE
75TH		.009	.10	1.4	.0485*		L.015	L.01	.11	75 <sup>e</sup>
90TH		.021	.14	5.0	L.0500		L.015	L.01	.54	90 <sup>e</sup>
SECONDARY CODE				05P	01P			04L	04L	CODE DE SECOURS

		26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28101L NICKEL DISSOLVED	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	CO MG/L	NI MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0033	23(3)	31(0)	30(13)		30(8)	35(10)	34(7)	26(16)	ECHANTILLONS(IND.)
LOW	0001	L.001	.13	L.001		L.001	L.001	L.001	L.0005	MINIMUM
HIGH	0003	.370	34.4	.038		.057	.051	.26	.014	MAXIMUM
AVERAGE	0103	.045*	4.579	.006*		.011*	.008*	.025*	.0026*	MOYENNE
STD.DEV.	0479	.084*	8.510	.007*		.014*	.010*	.052*	.0044*	ECART-TYPE
PERCNT:10TH		L.001	.23	.001*		L.002	L.001	.002	L.0005	10 <sup>e</sup> PERCNT
25TH		.010	.34	L.002		.002	.002	.003	L.0005	25 <sup>e</sup>
MEDIAN 50TH		.020	.88	.003		.006	.005	.006	L.0005	50 <sup>e</sup> MEDIANE
75TH		.040	4.2	.006		L.01	L.01	.011	.0009	75 <sup>e</sup>
90TH		.080	13.0	.011*		.030	.018	.069	.013	90 <sup>e</sup>
SECONDARY CODE		04L	02L	01P		01P	06L 06P	04L 04P	03L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07GJ0001** LAT. **55 D 42M 57 S** LONG. **117 D 37M 18 S**UTM **11 460900E 6174400 N**  
SEP 01, 1971 TO/A OCT 15, 1979

SMOKY RIVER AT WATINO, ALBERTA

		18130L ALDRIN	18195P AZIN- PHOSETHYL	18075L ALPHA- BHC	18070L GAMMA- BHC (LINDANE)	18060L ALPHA- (CIS) CHLORDANE	18065L GAMMA- (TRANS) CHLORDANE	18230P CRUFOMATE	18150L HEOD (DIELDRIN)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0003	12(12)	2(2)	15(6)	20(19)	8(8)	8(8)	2(2)	12(12)	ECHANTILLONS(IND.)
	LOW 0103	L.001	L.2	L.001	L.001	L.002	L.002	L.2	L.002	MINIMUM
	HIGH 0479	L.001	L.2	L.02	.001	L.003	L.002	L.2	L.003	MAXIMUM
	AVERAGE 0001			.004*	.001*					MOYENNE
	STD.DEV.			.005*	.000*					ECART-TYPE
PERCNT:10TH		L.001		L.001	L.001				L.002	10 <sup>e</sup> PERCNT
25TH		L.001		L.001	L.001	L.003	L.002		L.002	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.20	.002	L.001	L.003	L.002	L.20	L.002	50 <sup>e</sup> MEDIANE
75TH		L.001		.006	L.001	L.003	L.002		L.002	75 <sup>e</sup>
90TH		L.001		.008	L.001				L.002	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		18000L P,P-DDT	18005L O,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18270P DIAZINON	18215P DISULFOTON	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0001	12(12)	6(6)	12(12)	12(12)	8(8)	2(2)	12(12)	12(12)	ECHANTILLONS(IND.) MINIMUM MAXIMUM MOYENNE ECART-TYPE
	LOW 0479	L.004	L.001	L.001	L.001	L.02	L.02	L.001	L.003	
	HIGH 0103	L.004	L.001	L.002	L.001	L.02	L.02	L.001	L.003	
AVERAGE STD.DEV.										
PERCNT:10TH		L.004		L.002	L.001			L.001	L.003	10 <sup>e</sup> PERCNT
25TH		L.004	L.001	L.002	L.001	L.02		L.001	L.003	25 <sup>e</sup>
MEDIAN 50TH		L.004	L.001	L.002	L.001	L.02	L.020	L.001	L.003	50 <sup>e</sup> MEDIANE
75TH		L.004	L.001	L.002	L.001	L.02		L.001	L.003	75 <sup>e</sup>
90TH		L.004		L.002	L.001			L.001	L.003	90 <sup>e</sup>
SECONDARY CODE						70L				CODE DE SECOURS

		18140L ENDRIN	18310P ETHION	18190P AZIN- PHOSMETHYL (GUTHION)	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	18205P IMIDAN	18250P MALATHION	18520P MCPA	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0003	8(8)	8(8)	8(8)	12(12)	12(12)	2(2)	7(7)	19(19)	ECHANTILLONS(IND.)
	LOW 0103	L.002	L.01	L.1	L.001	L.002	L.2	L.01	L.2	MINIMUM
	HIGH 0479	L.003	L.02	L.5	L.001	L.002	L.2	L.05	L.2	MAXIMUM
	AVERAGE 0001									MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH					L.001	L.002			L.2	10 <sup>e</sup> PERCNT
25TH	L.002	L.01	L.10	L.001	L.002			L.01	L.2	25 <sup>e</sup>
MEDIAN 50TH	L.002	L.01	L.10	L.001	L.002		L.20	L.01	L.2	50 <sup>e</sup> MEDIANE
75TH	L.002	L.02	L.30	L.001	L.002			L.05	L.2	75 <sup>e</sup>
90TH				L.001	L.002				L.2	90 <sup>e</sup>
SECONDARY CODE		10L	90L						20L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960.79

## PEACE RIVER SUB-BASIN

STATION 00AL07GJ0001 LAT. 55 D 42 M 57 S LONG. 117 D 37 M 18 S

UTM 11 460900E 6174400N

SEP 01 1971 TO/A OCT 15 1979

SMOKY RIVER AT WATINO ALBERTA

		18030L P,P- METHOXY- CHLOR	18125L MIREX	18240P PARATHION	18245P PARATHION- METHYL	18300P PHORATE	18601P PICLORAM	18260P FENCHLORPHOS (RONNEL)	18540P FENOPROP (SILVEX)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0001	12(12)	6(6)	8(8)	3(3)	2(2)	6(6)	2(2)	6(6)	ECHANTILLONS(IND.)
LOW	0479	L.01	L.001	L.01	L.01	L.02	L.2	L.02	L.004	MINIMUM
HIGH	0103	L.012	L.001	L.02	L.02	L.02	L.2	L.02	L.004	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH		L.01								10 <sup>e</sup> PERCNT
25TH		L.010	L.001	L.01			L.2		L.004	25 <sup>e</sup>
MEDIAN 50TH		L.010	L.001	L.01	L.02	L.02	L.20	L.02	L.004	50 <sup>e</sup> MEDIANE
75TH		L.012	L.001	L.02			L.2		L.004	75 <sup>e</sup>
90TH		L.012								90 <sup>e</sup>
SECONDARY CODE				40L	45L					CODE DE SECOURS

		18320P CARBO- PHENOTHION	18325L METHYLCARBO PHENOTHION	18500P 2,4-D	18510P 2,4,5-T	18550P 2,4-DB	18555P DICHLORPROP	18160L AROCLOL 1254 (PCB'S)	18161L AROCLOL 1248 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	7(7)	1(1)	21(21)	21(21)	20(20)	20(20)	22(22)	22(22)	ECHANTILLONS(IND.)
LOW	0003	L.02	L.02	L.004	L.001	L.006	L.002	L.002	L.002	MINIMUM
HIGH	0001	L.02	L.02	L.004	L.002	L.009	L.004	L.032	L.024	MAXIMUM
AVERAGE	0479									MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH				L.004	L.002	L.009	L.004	L.002	L.002	10 <sup>e</sup> PERCNT
25TH		L.02		L.004	L.002	L.009	L.004	L.002	L.002	25 <sup>e</sup>
MEDIAN 50TH		L.02		L.004	L.002	L.009	L.004	L.030	L.020	50 <sup>e</sup> MEDIANE
75TH		L.02		L.004	L.002	L.009	L.004	L.03	L.02	75 <sup>e</sup>
90TH				L.004	L.002	L.009	L.004	L.03	L.02	90 <sup>e</sup>
SECONDARY CODE				00L	10L	50L	55L			CODE DE SECOURS

		18162L AROCLOL 1260 (PCB'S)	17811L HEXACHLORO- BENZENE	10151L ALKALINITY PHENOL PTHHALEIN	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	UG/L	UG/L	CACO3 MG/L	F MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	21(21)	6(6)	99(0)	62(6)	48(2)	4(0)	22(1)	ECHANTILLONS(IND.)
LOW	0033	L.005	L.001	.0	L.05	L.1	129.	L.1	MINIMUM
HIGH	0003	L.06	L.001	2.9	.37	1270.	323.	1180.	MAXIMUM
AVERAGE	0479			.0	.11*	211.*	234.	293.*	MOYENNE
STD.DEV.				.3	.06*	303.*	102.	347.*	ECART-TYPE
PERCNT:10TH		L.005		.0	.06	2.		12.	10 <sup>e</sup> PERCNT
25TH		L.005	L.001	.0	.07	7.	147.	36.	25 <sup>e</sup>
MEDIAN 50TH		L.055	L.001	.0	.09*	68.	242.	179.	50 <sup>e</sup> MEDIANE
75TH		L.06	L.001	.0	.12	284.	322.	332.	75 <sup>e</sup>
90TH		L.06		.0	.16	698.		752.	90 <sup>e</sup>
SECONDARY CODE					04L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07GJ0003 LAT. 55 D 14 M 12 S LONG. 118 D 15 M 30 S

UTM 11 420000E 6121700 N  
AUG 18, 1969 TO/À JAN 15, 1974

SMOKY RIVER EAST OF BEZANSON, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0056	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)		ECHANTILLONS(IND.)
LOW	0103	246.	130.	122.	25.	18.0	7.5	101.		MINIMUM
HIGH		404.	225.	171.	30.	61.0	8.3	132.		MAXIMUM
AVERAGE		311.	171.	146.0	28.	37.8		119.8		MOYENNE
STD.DEV.		68.	40.	20.5	3.	17.8		13.4		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		263.	142.	131.0	25.	25.5	7.8	110.5		25 <sup>e</sup>
MEDIAN 50TH		298.	164.	145.5	28.	36.0	8.0	123.0		50 <sup>e</sup> MEDIANE
75TH		360.	199.	161.0	30.	50.0	8.2	129.0		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0103	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW	0056	.4	3.2	34.9	8.5	0.	123.	.3	22.3	MINIMUM
HIGH		.9	18.0	46.0	13.6	0.	161.	7.4	60.0	MAXIMUM
AVERAGE		.7	8.4	41.7	10.2	0.	146.	2.5	35.6	MOYENNE
STD.DEV.		.2	6.6	5.4	2.4	0.	16.	3.3	17.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.6	4.2	37.4	8.6	0.	135.	.7	24.1	25 <sup>e</sup>
MEDIAN 50TH		.7	6.3	43.0	9.3	0.	150.	1.2	30.0	50 <sup>e</sup> MEDIANE
75TH		.8	12.6	46.0	11.7	0.	157.	4.4	47.0	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE									03L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0103	4(3)	4(2)		1(1)		4(0)	4(0)	3(0)	ECHANTILLONS(IND.)
LOW	0056	L.5	L.001		L.002		.005	2.6	6.0	MINIMUM
HIGH		.5	.090		L.002		.062	4.6	8.0	MAXIMUM
AVERAGE		.5*	.029*				.039	3.5	7.3	MOYENNE
STD.DEV.		.0*	.041*				.025	.8	1.2	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.5	L.003				.021	2.9		25 <sup>e</sup>
MEDIAN 50TH		L.5	.012*				.044	3.3	8.0	50 <sup>e</sup> MEDIANE
75TH		.5*	.055				.057	4.0		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 00AL07GJ0003 LAT. 55 D 14 M 12 S LONG. 118 D 15 M 30 S

UTM 11 420000E 6121700 N  
AUG 18 1969 TO/A JAN 15 1974

## SMOKY RIVER EAST OF BEZANSON ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE	BORON DISSOLVED	13302P ALUMINUM EXTRBLE	23301P VANADIUM EXTRBLE	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	2(0)	4(0)	7(3)	5(0)	9(2)	6(6)	1(1)	10(3)	ECHANTILLONS(IND.)
LOW	0056	.005	.08	L.005	.03	L.10	L.05	L.010	L.01	MINIMUM
HIGH		.017	.10	.015	.07	2.8	L.05	L.010	.23	MAXIMUM
AVERAGE		.0110	.09	.008*	.05	.668*			.05*	MOYENNE
STD.DEV.		.0085	.01	.004*	.02	.849*			.07*	ECART-TYPE
PERCNT:10TH									L.01	10 <sup>e</sup> PERCNT
25TH			.08	L.005	.05	.20	L.05		L.01	25 <sup>e</sup>
MEDIAN 50TH		.0110	.09	.006	.06	.34	L.0500		.02	50 <sup>e</sup> MEDIANE
75TH			.10	.009	.06	.84	L.05		.05	75 <sup>e</sup>
90TH									.15	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		24302P CHROMIUM EXTRBLE	26304P IRON EXTRBLE	27302P COBALT EXTRBLE	28302P NICKEL EXTRBLE	29305P COPPER EXTRBLE	30305P ZINC EXTRBLE	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	10(10)	9(0)	10(6)	10(6)	11(4)	11(2)	3(1)	10(0)	ECHANTILLONS(IND.)
LOW	0056	L.010	.13	L.001	L.001	L.001	L.001	L.005	.14	MINIMUM
HIGH		L.010	2.10	.023	.013	.011	.022	.007	.50	MAXIMUM
AVERAGE			.676	.006*	.006*	.004*	.007*	.0057*	.26	MOYENNE
STD.DEV.			.633	.007*	.004*	.004*	.006*	.0012*	.11	ECART-TYPE
PERCNT:10TH		L.010		L.001	L.001	L.001	.002		.15	10 <sup>e</sup> PERCNT
25TH		L.010	.21	L.001	L.001	L.001	.003		.20	25 <sup>e</sup>
MEDIAN 50TH		L.010	.53	.003	.006	.002	.005	.005	.24	50 <sup>e</sup> MEDIANE
75TH		L.010	.94	L.01	L.01	.009	L.01		.29	75 <sup>e</sup>
90TH		L.010		.016*	.011*	L.01	.01		.44	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE	47301P SILVER EXTRBLE	48302P CADMIUM EXTRBLE	51302P ANTIMONY EXTRBLE	56301P BARIUM EXTRBLE	80311P MERCURY EXTRBLE	81302P THALLIUM EXTRBLE	82302P LEAD EXTRBLE	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	9(9)	10(10)	10(8)	5(5)	10(6)	5(5)	7(7)	10(9)	ECHANTILLONS(IND.)
LOW		L.05	L.01	L.001	L.008	L.1	L.05	L.10	L.001	MINIMUM
HIGH		L.05	L.01	L.01	L.50	.3	L.05	L.2	.008	MAXIMUM
AVERAGE				.004*		.1*			.002*	MOYENNE
STD.DEV.				.004*		.1*			.002*	ECART-TYPE
PERCNT:10TH			L.01	L.001		L.1			L.001	10 <sup>e</sup> PERCNT
25TH		L.05	L.01	L.001	L.20	L.1	L.05	L.10	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.01	.001*	L.40	L.1	L.05	L.2	L.001	50 <sup>e</sup> MEDIANE
75TH		L.05	L.01	L.01	L.40	.1	L.05	L.2	L.001	75 <sup>e</sup>
90TH			L.01	L.010		.3			.004*	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07HA0001 LAT. 56 D 14 M 42 S LONG. 117 D 18 M 45 S

UTM 11 480600 E 6233100 N  
OCT 24, 1960 TO/A JUN 04, 1974

PEACE RIVER AT PEACE RIVER, ALBERTA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	0001	133(0)	129(1)	95(0)	124(1)	133(3)	133(0)	130(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0024	162.	96.	90.8	L5.	L.1	7.4	66.0	<b>MINIMUM</b>
<b>HIGH</b>	0056	495.	283.	261.	240.	1300.	8.6	187.	<b>MAXIMUM</b>
<b>AVERAGE</b>	0103	293.	165.*	139.7	32.*	95.6*		118.0	<b>MOYENNE</b>
<b>STD.DEV.</b>	0003	89.	54.*	41.0	41.*	211.5*		32.5	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		196.	105.	96.5	5.	2.0	7.8	85.1	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		218.	121.	106.	10.	4.7	7.9	93.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		271.	152.	127.	20.	19.0	8.1	107.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		355.	204.	167.	33.	73.0	8.2	145.	<b>75<sup>e</sup></b>
<b>90TH</b>		437.	255.	203.	80.	280.	8.3	171.	<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0001	132(0)	132(0)	133(0)	95(0)	127(0)	127(0)	132(1)	133(0)	ECHANTILLONS(IND.)
LOW	0056	.3	1.5	25.4	3.5	0.	80.	L.1	6.6	MINIMUM
HIGH	0024	4.5	20.0	70.2	20.8	3.	228.	5.2	85.0	MAXIMUM
AVERAGE	0003	1.0	6.2	41.3	8.9	0.	143.	1.5*	33.2	MOYENNE
STD.DEV.	0103	.7	3.6	11.6	3.5	0.	40.	1.0*	17.7	ECART-TYPE
PERCNT:10TH		.5	2.2	29.0	5.5	0.	104.	.6	13.6	10 <sup>e</sup> PERCNT
25TH		.7	3.5	31.3	6.3	0.	112.	.8	19.2	25 <sup>e</sup>
MEDIAN 50TH		.8	5.2	38.2	8.0	0.	128.	1.2	29.5	50 <sup>e</sup> MEDIANE
75TH		1.1	8.2	50.3	10.5	0.	174.	1.9	46.0	75 <sup>e</sup>
90TH		1.8	11.5	58.0	14.6	0.	208.	2.9	60.4	90 <sup>e</sup>

SECONDARY CODE

01L 02L 06L

04L 01L

CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07306L NITROGEN DISSOLVED NITRATE	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15314L PHOSPHORUS TOTAL INORG. PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	
SUBM ID		N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	
SAMPLES(FLAGS)	0001	6(1)	76(15)	35(1)	45(29)	16(9)	5(3)	30(11)	20(6)	ECHANTILLONS(IND.)
	LOW 0024	L.5	L.001	.000	L.1	L.002	L.002	L.001	L.005	MINIMUM
	HIGH 0056	1.0	.510	.723	1.0	.030	.007	.104	.250	MAXIMUM
	AVERAGE 0103	.7*	.060*	.128*	.2*	.005*	.004*	.014*	.038*	MOYENNE
	STD.DEV. 0003	.2*	.081*	.146*	.2*	.007*	.003*	.021*	.056*	ECART-TYPE
PERCNT:10TH			L.005	.000	L.1	L.002		L.002	L.005	10 <sup>e</sup> PERCNT
25TH		.6	.010	.023	L.1	L.002	L.002	L.002	L.005	25 <sup>e</sup>
MEDIAN 50TH		.7	.037	.090	L.1	L.002	L.002	.006	.015	50 <sup>e</sup> MEDIANE
75TH		.9	.080	.181	.1	.003	.007	.016	.046	75 <sup>e</sup>
90TH			.136	.271	.2	.013		.036	.083	90 <sup>e</sup>

SECONDARY CODE

02L

05L

07L 08L

59L 55L

64L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07HA0001 LAT 56 D 14 M 42 S LONG. 117 D 18 M 45 S

UTM 11 480600E 6233100N  
OCT 24 1960 TO/A JUN 04 1974

PEACE RIVER AT PEACE RIVER ALBERTA

		14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06532P PHENOLIC MATERIAL	06711L CHLORO- PHYLL A	10711P NTA NITRILOTRI ACETIC AC. H3NTA MG/L	09104L FLUORIDE DISSOLVED F MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	
SAMPLES(FLAGS)	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	ECHANTILLONS(IND.)
LOW	0056	1.1	15(1)	14(0)	2(1)	3(0)	1(1)	57(6)	127(0)	MINIMUM
HIGH	0024	7.90	L.5	13.0	L.002	.003	L.01	L.05	.0	MAXIMUM
AVERAGE	0003	3.84	36.0	27.0	.005	.015	L.01	.26	2.2	MOYENNE
STD.DEV.	0103	1.09	13.1*	21.3	.003*	.0100		.13*	.0	ECART-TYPE
			9.2*	4.3	.002*	.0062		.05*	.2	
PERCNT:10TH		2.5	4.0	18.0				.07	0.	10 <sup>th</sup> PERCNT
25TH		3.1	5.0	18.0				L.10	.0	25 <sup>th</sup>
MEDIAN 50TH		3.8	12.0	20.5	.003*	.012		.12	.0	50 <sup>th</sup> MEDIANE
75TH		4.50	19.0	26.0				.15	.0	75 <sup>th</sup>
90TH		5.00	23.0	26.0				.19	0.	90 <sup>th</sup>
SECONDARY CODE		01L						05L 02L		CODE DE SECOURS

		03101L LITHIUM DISSOLVED LI MG/L	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	13101L ALUMINUM DISSOLVED AL MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23301P VANADIUM EXTRBLE. V MG/L	24052L CHROMIUM DISSOLVED CR MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	
SAMPLES(FLAGS)	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	ECHANTILLONS(IND.)
LOW	0024	1(1)	6(0)	7(0)	23(3)	9(1)	5(5)	1(1)	11(11)	MINIMUM
HIGH	0103	L.005	.006	.05	L.01	L.10	L.05	L.004	L.010	MAXIMUM
AVERAGE	0056	L.005	.020	.32	.38	2.1	L.05	L.004	L.010	MOYENNE
STD.DEV.	0003		.011	.11	.07*	.89*				ECART-TYPE
			.005	.10	.08*	.85*				
PERCNT:10TH					L.01				L.010	10 <sup>th</sup> PERCNT
25TH			.007	.05	.03	.14	L.05		L.010	25 <sup>th</sup>
MEDIAN 50TH			.009	.06	.05	.47	L.05		L.010	50 <sup>th</sup> MEDIANE
75TH			.013	.13	.08	1.9	L.05		L.010	75 <sup>th</sup>
90TH					.12				L.010	90 <sup>th</sup>
SECONDARY CODE										CODE DE SECOURS

		25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	28101L NICKEL DISSOLVED NI MG/L	28302P NICKEL EXTRBLE. NI MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	ECHANTILLONS(IND.)
LOW	0103	40(38)	15(4)	44(15)	17(0)	11(6)	1(1)	11(4)	7(4)	MINIMUM
HIGH	0056	L.010	L.01	L.001	.09	L.001	L.00	L.001	L.0005	MAXIMUM
AVERAGE	0024	.010	.36	2.10	7.80	.015	L.00	.031	.014	MOYENNE
STD.DEV.	0003	.010*	.073*	.082*	2.012	.006*		.010*	.0072*	ECART-TYPE
		.000*	.104*	.315*	2.651	.005*		.009*	.0048*	
PERCNT:10TH		L.010	L.01	L.001	.16	L.001		.001		10 <sup>th</sup> PERCNT
25TH		L.010	L.01	L.010	.36	L.001		.003	L.005	25 <sup>th</sup>
MEDIAN 50TH		L.010	.02	.010	.76	.003		L.01	L.005	50 <sup>th</sup> MEDIANE
75TH		L.010	.12	.045	1.58	L.01		.012	.013	75 <sup>th</sup>
90TH		L.010	.24	.100	6.43	.011		.022		90 <sup>th</sup>
SECONDARY CODE		04L	04L	01L	01L	01P		01P	04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB-BASIN

STATION 00AL07HA0001 LAT. 56 D 14 M 42 S LONG. 117 D 18 M 45 S

UTM 11 480600E 6233100 N  
OCT 24, 1960 TO/À JUN 04, 1974

PEACE RIVER AT PEACE RIVER, ALBERTA

		29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	
	SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
SAMPLES(FLAGS)	0001	14(8)	23(10)	14(6)	16(6)		11(0)	10(10)	12(12)	ECHANTILLONS(IND.)
LOW	0103	L.001	.001	L.001	L.001		.07	L.05	L.01	MINIMUM
HIGH	0056	.012	.20	.019	.027		.27	L.05	L.01	MAXIMUM
AVERAGE	0003	.006*	.019*	.008*	.010*		.20			MOYENNE
STD.DEV.		.004*	.041*	.005*	.008*		.06			ECART-TYPE
PERCENT:10TH		L.001	.002	.001	.001		.15	L.050	L.01	10 <sup>e</sup> PERCNT
25TH		.003	.004	.003	.004		.15	L.05	L.01	25 <sup>e</sup>
MEDIAN 50TH		.006	L.01	L.010	L.010		.21	L.050	L.01	50 <sup>e</sup> MEDIANE
75TH		L.01	.013	L.01	.015*		.24	L.05	L.01	75 <sup>e</sup>
90TH		L.01	.025	.015	.020		.27	L.050	L.01	90 <sup>e</sup>
SECONDARY CODE		06L	06L 01L	04L	04L					CODE DE SECOURS

		48301P CADMIUM EXTRBL.	51301P ANTIMONY EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	92101L URANIUM DISSOLVED	
	SUBM ID	CD MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	U MG/L	
SAMPLES(FLAGS)	0001	11(8)	4(4)	11(7)	6(6)	6(6)	13(13)	16(13)	1(0)	ECHANTILLONS(IND.)
LOW	0056	L.001	L.20	L.1	L.05	L.10	L.001	L.001	.0008	MINIMUM
HIGH	0103	L.01	L.50	.4	L.05	L.2	L.05	L.01	.0008	MAXIMUM
AVERAGE	0003	.004*		.1*				.005*		MOYENNE
STD.DEV.		.004*		.1*				.004*		ECART-TYPE
PERCENT:10TH		L.001		L.1			L.001	L.001		10 <sup>e</sup> PERCNT
25TH		L.001	L.300	L.1	L.05	L.10	L.001	L.001		25 <sup>e</sup>
MEDIAN 50TH		.001	L.400	L.1	L.05	L.15	L.001	.003*		50 <sup>e</sup> MEDIANE
75TH		L.01	L.450	.1	L.05	L.2	L.05	L.010		75 <sup>e</sup>
90TH		L.01		.2			L.05	L.01		90 <sup>e</sup>
SECONDARY CODE		02P				02P	01L 02L	01L		CODE DE SECOURS

		18130L ALDRIN	18055L BETA- ENDO- SULFAN	18150L HEOD (DIELDRIN)	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	6(6)	6(6)	6(6)	6(6)	6(6)	6(6)	6(6)	6(6)	ECHANTILLONS(IND.)
LOW		L.001	L.003	L.002	L.004	L.001	L.001	L.001	L.003	MINIMUM
HIGH		L.001	L.003	L.002	L.004	L.002	L.001	L.001	L.003	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCENT:10TH										10 <sup>e</sup> PERCNT
25TH		L.001	L.003	L.002	L.004	L.002	L.001	L.001	L.003	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.003	L.002	L.004	L.002	L.001	L.001	L.003	50 <sup>e</sup> MEDIANE
75TH		L.001	L.003	L.002	L.004	L.002	L.001	L.001	L.003	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00AL07HA0001 LAT 56 D 14 M 42 S LONG 117 D 18 M 45 S

UTM 11 480600E 6233100N  
SEP 01 1971 TO: A JUN 04 1974

PEACE RIVER AT PEACE RIVER ALBERTA

		18070L GAMMA- BHC (LINDANE)	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	18520L MCPA	18030L P.P- METHOXY CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-D6	
	SUBM ID	UG:L	UG:L	UG:L	UG:L	UG:L	UG:L	UG:L	UG:L	
SAMPLES(FLAGS)	0103	6(6)	6(6)	5(5)	4(4)	6(6)	5(5)	5(5)	4(4)	ECHANTILLONS(IND.)
LOW	0003	L.001	L.001	L.002	L.2	L.012	L.004	L.001	L.009	MINIMUM
HIGH		L.001	L.002	L.002	L.2	L.012	L.004	L.002	L.009	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.001	L.001	L.002	L.200	L.012	L.004	L.002	L.009	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	L.002	L.200	L.012	L.004	L.002	L.009	50 <sup>e</sup> MEDIANE
75TH		L.001	L.001	L.002	L.200	L.012	L.004	L.002	L.009	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		18160L AROCLO 1254 (PCB'S)	18161L AROCLO 1248 (PCB'S)	18162L AROCLO 1260 (PCB'S)	
	SUBM ID	UG:L	UG:L	UG:L	
SAMPLES(FLAGS)	0103	5(5)	5(5)	4(4)	ECHANTILLONS(IND.)
LOW	0003	L.03	L.02	L.055	MINIMUM
HIGH		L.032	L.024	L.06	MAXIMUM
AVERAGE					MOYENNE
STD.DEV.					ECART-TYPE
PERCNT:10TH					10 <sup>e</sup> PERCNT
25TH		L.032	L.024	L.055	25 <sup>e</sup>
MEDIAN 50TH		L.032	L.024	L.055	50 <sup>e</sup> MEDIANE
75TH		L.032	L.024	L.057	75 <sup>e</sup>
90TH					90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB-BASIN

STATION **00AL07HA0007** LAT. **56 D 3 M 18 S** LONG. **117 D 7 M 45 S**

UTM **11 492000 E 6212000 N**  
AUG 23, 1973 TO/A OCT 29, 1973

HEART RIVER NEAR NAMPA, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0103	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW		261.	153.	143.	120.	12.0	7.7	103.	.1	MINIMUM
HIGH		332.	187.	179.	140.	37.0	8.0	128.	.2	MAXIMUM
AVERAGE		297.	170.	161.0	130.	24.5		115.5		MOYENNE
STD.DEV.		50.	24.	25.5	14.	17.7		17.7		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		297.	170.	161.0	130.	24.5	7.8	115.5	.2	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0103	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW		1.8	3.2	46.0	6.8	0.	126.	1.5	32.0	MINIMUM
HIGH		2.6	5.1	56.0	9.5	0.	156.	1.9	35.0	MAXIMUM
AVERAGE		2.2	4.2	51.0	8.2	0.	141.	1.7	33.5	MOYENNE
STD.DEV.		.6	1.3	7.1	1.9	0.	22.	.3	2.1	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		2.2	4.2	51.0	8.2	0.	141.	1.7	33.5	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0103	2(0)	2(1)				2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW		1.2	L.001				.078	6.9	35.0	MINIMUM
HIGH		1.3	.110				.094	7.7	36.0	MAXIMUM
AVERAGE		1.2	.055*				.086	7.3	35.5	MOYENNE
STD.DEV.		.1	.077*				.011	.6	.7	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.2	.055*				.086	7.3	35.5	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00AL07HA0007 LAT 56° 3M 18° LONG 117° 7M 45°

UTM 11 492000E 6212000N

AUG 06 1971 TO/A OCT 29 1973

HEART RIVER NEAR NAMPA ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	1(0)	2(0)	7(0)	4(0)	9(1)	6(6)		9(0)	ECHANTILLONS(IND.)
LOW		.006	.08	.011	.15	L.10	L.05		.03	MINIMUM
HIGH		.006	.10	.023	.29	.97	L.05		.14	MAXIMUM
AVERAGE			.09	.017	.22	.334			.06	MOYENNE
STD.DEV.			.01	.004	.06	.302			.04	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				.014	.18	.12	L.05		.04	25 <sup>e</sup>
MEDIAN 50TH			.09	.016	.23	.15	L.0500		.04	50 <sup>e</sup> MEDIANE
75TH				.021	.27	.51	L.05		.08	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		24302P CHROMIUM EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	9(8)	8(0)	9(7)	9(4)	9(3)	8(2)	6(1)	9(0)	ECHANTILLONS(IND.)
LOW		L.010	.45	L.001	L.001	L.001	L.001	L.005	.13	MINIMUM
HIGH		.014	3.60	L.01	L.01	.004	.005	.030	.30	MAXIMUM
AVERAGE		.010	1.397	.005	.007	.002	.003	.0163	.20	MOYENNE
STD.DEV.		.001	1.104	.004	.003	.001	.001	.0118	.06	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.010	.610	L.001	.005	L.001	.001	.005	.15	25 <sup>e</sup>
MEDIAN 50TH		L.010	1.005	.004	.008	.003	.003	.0140	.21	50 <sup>e</sup> MEDIANE
75TH		L.010	1.950	L.01	L.01	.003	.004	.030	.25	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P	01P					CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	8(8)	9(9)	9(8)	5(4)	9(6)	4(4)	7(7)	9(8)	ECHANTILLONS(IND.)
LOW		L.05	L.01	L.001	.010	L.1	L.05	L.10	L.001	MINIMUM
HIGH		L.05	L.01	L.01	L.50	.1	L.05	L.2	.002	MAXIMUM
AVERAGE				.004	.302	.1			.001	MOYENNE
STD.DEV.				.004	.196	.0			.000	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.05	L.01	L.001	L.20	L.1	L.05	L.10	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.01	L.001	L.40	L.1	L.05	L.2	L.001	50 <sup>e</sup> MEDIANE
75TH		L.05	L.01	L.01	L.40	.1	L.05	L.2	L.001	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P	02P					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07HA0008** LAT. **56 D 30 M 39 S** LONG. **117 D 39 M 33 S**UTM **11 459500 E 6262900 N**  
JUL 30, 1969 TO/À JAN 11, 1974WHITEMUD RIVER NEAR DIXONVILLE,  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	0103	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	267.	150.	133.	50.	12.0	7.6	99.0	.2	<b>MINIMUM</b>
<b>HIGH</b>		458.	267.	230.	120.	36.0	8.3	163.	.4	<b>MAXIMUM</b>
<b>AVERAGE</b>		341.	196.	166.8	98.	22.0		126.0		<b>MOYENNE</b>
<b>STD.DEV.</b>		85.	51.	45.8	33.	10.1		29.8		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		279.	161.	133.0	75.	16.0	7.7	102.0	.2	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		320.	184.	152.0	110.	20.0	7.9	121.0	.3	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		403.	231.	200.5	120.	28.0	8.2	150.0	.4	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	0103	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	1.2	4.8	41.7	5.6	0.	121.	.5	31.2	<b>MINIMUM</b>
<b>HIGH</b>		1.8	14.0	67.0	15.2	0.	199.	2.2	75.0	<b>MAXIMUM</b>
<b>AVERAGE</b>		1.5	9.2	50.4	9.9	0.	154.	1.2	48.0	<b>MOYENNE</b>
<b>STD.DEV.</b>		.3	3.8	11.5	4.4	0.	36.	.8	19.0	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		1.3	6.7	42.8	6.3	0.	124.	.6	35.6	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		1.5	9.0	46.5	9.4	0.	147.	1.0	43.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		1.7	11.6	58.0	13.5	0.	183.	1.7	60.5	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE									03L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	0103	3(0)	4(2)		1(0)		4(0)	4(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	.8	L.001		.003		.042	4.0	17.0	<b>MINIMUM</b>
<b>HIGH</b>		1.1	.080		.003		.070	7.0	29.0	<b>MAXIMUM</b>
<b>AVERAGE</b>		1.0	.031*				.058	5.7	23.0	<b>MOYENNE</b>
<b>STD.DEV.</b>		.2	.037*				.013	1.2	8.5	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			L.003				.048	4.8		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		1.1	.022*				.060	5.8	23.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			.060				.068	6.5		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE			05L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07HA0008 LAT. 56 D 30 M 39 S LONG. 117 D 39 M 33 S

UTM 11 459500E 6262900 N  
JUL 30 1969 TO/A JAN 11 1974WHITEMUD RIVER NEAR DIXONVILLE  
ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0056	2(1)	4(0)	6(0)	5(0)	9(4)	5(5)	1(1)	9(1)	ECHANTILLONS(IND.)
LOW	0103	L.001	.08	.007	.09	L.10	L.05	L.010	L.01	MINIMUM
HIGH		.012	.12	.012	.31	.85	L.05	L.010	.11	MAXIMUM
AVERAGE		.0065*	.10	.010	.15	.313*			.06*	MOYENNE
STD.DEV.		.0078*	.02	.002	.09	.256*			.03*	ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

10<sup>e</sup> PERCNT25<sup>e</sup>50<sup>e</sup> MEDIANE75<sup>e</sup>90<sup>e</sup>

CODE DE SECOURS

		24302P CHROMIUM EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	9(9)	8(0)	9(7)	9(3)	10(2)	9(3)	4(1)	9(0)	ECHANTILLONS(IND.)
LOW	0056	L.010	.62	L.001	L.001	L.001	L.001	L.005	.08	MINIMUM
HIGH		L.010	3.50	L.01	.010	L.01	L.01	.020	.23	MAXIMUM
AVERAGE			1.896	.003*	.007*	.003*	.004*	.0140*	.15	MOYENNE
STD.DEV.			.898	.004*	.003*	.003*	.003*	.0073*	.04	ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

10<sup>e</sup> PERCNT25<sup>e</sup>50<sup>e</sup> MEDIANE75<sup>e</sup>90<sup>e</sup>

CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	8(7)	9(9)	9(9)	5(5)	9(8)	5(5)	6(6)	9(9)	ECHANTILLONS(IND.)
LOW		L.05	L.01	L.001	L.008	L.1	L.05	L.10	L.001	MINIMUM
HIGH		.10	L.01	L.01	L.50	.1	L.05	L.2	L.001	MAXIMUM
AVERAGE		.06*				.1*				MOYENNE
STD.DEV.		.02*				.0*				ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

01P

02P

01P

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07HC0006** LAT. **56 D 55M 21 S** LONG. **117 D 37M 39 S**UTM **11 461800E 6308700 N**  
JUL 30, 1969 TO/A JUN 05, 1974

NOTIKEWIN RIVER AT MANNING, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	0103	4(0)	4(0)	4(0)	3(0)	4(0)	4(0)	4(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	172.	98.	84.0	90.	10.0	7.7	54.0		<b>MINIMUM</b>
<b>HIGH</b>		299.	165.	141.	140.	115.	8.3	98.0		<b>MAXIMUM</b>
<b>AVERAGE</b>		225.	127.	110.3	117.	45.3		77.4		<b>MOYENNE</b>
<b>STD.DEV.</b>		53.	28.	23.6	25.	49.3		18.1		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		191.	109.	94.0		10.5	7.7	65.4		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		214.	122.	108.0	120.	28.0	7.9	78.9		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		259.	144.	126.5		80.0	8.2	89.5		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	0003	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0103	1.0	4.2	26.0	4.6	0.	66.	.7	25.0	<b>MINIMUM</b>
<b>HIGH</b>		2.0	9.1	46.0	7.8	0.	119.	1.5	42.0	<b>MAXIMUM</b>
<b>AVERAGE</b>		1.3	6.1	34.1	6.1	0.	94.	1.1	31.5	<b>MOYENNE</b>
<b>STD.DEV.</b>		.5	2.2	8.5	1.3	0.	22.	.4	7.4	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		1.0	4.4	29.0	5.2	0.	80.	.9	26.5	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		1.2	5.5	32.1	6.0	0.	96.	1.2	29.5	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		1.6	7.8	39.1	7.1	0.	109.	1.4	36.5	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE								06L	03L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	C MG/L	
<b>SAMPLES(FLAGS)</b>	0103	3(0)	4(2)		1(0)		4(0)	4(0)	3(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	.8	L.001		.003		.023	4.2	22.0	<b>MINIMUM</b>
<b>HIGH</b>		1.2	.050		.003		.120	6.5	30.0	<b>MAXIMUM</b>
<b>AVERAGE</b>		1.0	.023*				.067	5.2	26.3	<b>MOYENNE</b>
<b>STD.DEV.</b>		.2	.026*				.048	1.1	4.0	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			L.001				.027	4.2		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.9	.020*				.063	5.0	27.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			.045				.108	6.2		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07HC0006 LAT. 56 D 55 M 21 S LONG. 117 D 37 M 39 S

UTM 11 461800E 6308700 N

JUL 30 1969 TO/A JUN 05 1974

NOTIKEWIN RIVER AT MANNING ALBERTA

SUBM ID		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRABLE	05105L BORON DISSOLVED	13302P ALUMINUM EXTRABLE	23301P VANADIUM EXTRABLE	25101L MANGANESE DISSOLVED	25101L MANGANESE EXTRABLE	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0003	3(0)	4(0)	4(0)	4(0)	8(1)	4(4)	1(1)	8(2)	ECHANTILLONS(IND.)
LOW	0103	.002	.07	.010	.10	L.10	L.05	L.010	L.01	MINIMUM
HIGH		.009	.11	.019	.23	2.3	L.05	L.010	.36	MAXIMUM
AVERAGE		.0053	.09	.013	.16	.819*			.10*	MOYENNE
STD.DEV.		.0035	.02	.004	.06	.880*			.12*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.07	.011	.12		L 0500		.01*	25 <sup>e</sup>
MEDIAN 50TH		.005	.09	.012	.15	.470	L.0500		.04	50 <sup>e</sup> MEDIANE
75TH			.11	.016	.20	1.400	L 0500		.15	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS
SUBM ID		24302P CHROMIUM EXTRABLE	26304P IRON EXTRABLE	27302P COBALT EXTRABLE	28302P NICKEL EXTRABLE	29305P COPPER EXTRABLE	30305P ZINC EXTRABLE	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRABLE	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	8(8)	7(0)	8(4)	8(2)	9(2)	8(2)	3(0)	8(0)	ECHANTILLONS(IND.)
LOW	0003	L.010	1.35	L.001	.004	L.001	L.001	.005	.08	MINIMUM
HIGH		L.010	8.20	L.01	.019	.013	.046	.030	.27	MAXIMUM
AVERAGE			3.564	.004*	.011*	.006*	.011*	.0137	.14	MOYENNE
STD.DEV.			3.027	.004*	.005*	.004*	.015*	.0142	.06	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.010	1.40	.001*	.006	.003	.002		.11	25 <sup>e</sup>
MEDIAN 50TH		L.010	1.90	.003	L.010	.004	.006	.006	.13	50 <sup>e</sup> MEDIANE
75TH		L.010	7.70	.008*	.015	.008	.012*		.16	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P	01P	.06	.04			CODE DE SECOURS
SUBM ID		42301P MOLYBDENUM EXTRABLE	47301P SILVER EXTRABLE	48302P CADMIUM EXTRABLE	51301P ANTIMONY EXTRABLE	56301P BARIUM EXTRABLE	80311P MERCURY EXTRABLE	81302P THALLIUM EXTRABLE	82302P LEAD EXTRABLE	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	7(7)	7(7)	8(4)	3(3)	8(6)	4(4)	5(5)	7(3)	ECHANTILLONS(IND.)
LOW	0003	L.05	L.01	L.001	L.20	L.1	L.05	L.10	L.001	MINIMUM
HIGH		L.05	L.01	.04	L.50	.1	L.05	L.2	.007	MAXIMUM
AVERAGE				.007*		.1*			.003*	MOYENNE
STD.DEV.				.014*		0*			.002*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.05	L.01	L.001		L.1	L.05	L.10	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.01	.002	L.40	L.1	L.05	L.10	.002	50 <sup>e</sup> MEDIANE
75TH		L.05	L.01	.006*		1*	L.05	L.2	.005	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07HC0007** LAT. **59 D 3M** LONG. **116 D 34M**UTM **11 524000E 6546000 N**  
JUL 30, 1969 TO/À OCT 27, 1973

HOTCHKISS RIVER AT HOTCHKISS, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0056	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW	0103	121.	74.	66.0	120.	12.0	7.8	44.0	-.3	MINIMUM
HIGH		319.	186.	141.	190.	120.	8.1	103.	.1	MAXIMUM
AVERAGE		233.	139.	108.7	163.	50.0		76.8		MOYENNE
STD.DEV.		102.	58.	38.6	38.	60.7		30.0		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		260.	157.	119.	180.	18.0	8.1	83.3	.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW	0056	.6	3.8	24.0	1.5	0.	54.	1.3	16.0	MINIMUM
HIGH		1.4	15.0	40.0	10.0	0.	126.	1.8	56.0	MAXIMUM
AVERAGE		1.1	10.5	32.9	6.4	0.	94.	1.6	40.3	MOYENNE
STD.DEV.		.4	5.9	8.2	4.4	0.	37.	.3	21.3	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.2	12.7	34.8	7.8	0.	102.	1.7	48.8	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE									03L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0056	2(0)	3(1)		1(0)		3(0)	3(0)	2(0)	ECHANTILLONS(IND.)
LOW	0103	.9	L.005		.007		.039	4.5	22.0	MINIMUM
HIGH		1.4	.020		.007		.150	6.1	36.0	MAXIMUM
AVERAGE		1.2	.015*				.091	5.6	29.0	MOYENNE
STD.DEV.		.4	.009*				.056	.9	9.9	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.2	.020				.084	6.1	29.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			05L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79

PEACE RIVER SUB BASIN

STATION 00AL07HC0007

LAT. 59 D 3M

LONG. 116 D 34M

UTM 11 524000E 6546000N  
JUL 30 1969 TO/A OCT 27 1973

HOTCHKISS RIVER AT HOTCHKISS ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED F	03301P LITHIUM EXTRBL.	05105L BORON DISSOLVED B	13302P ALUMINUM EXTRBL.	23301P VANADIUM EXTRBL.	25101L MANGANESE DISSOLVED MN	25304P MANGANESE EXTRBL.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	2(0)	3(0)	5(0)	3(0)	7(1)	4(4)	1(1)	7(2)	ECHANTILLONS(IND.)
LOW	0056	.011	.08	.010	.13	L.10	L.05	L.010	L.01	MINIMUM
HIGH		.019	.13	.014	.30	3.0	L.05	L.010	.17	MAXIMUM
AVERAGE		.0150	.10	.012	.19	1.151*			.06*	MOYENNE
STD.DEV.		.0057	.03	.002	.09	1.162*			.06*	ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

10<sup>e</sup> PERCNT

25<sup>e</sup>

50<sup>e</sup> MEDIANE

75<sup>e</sup>

90<sup>e</sup>

CODE DE SECOURS

		24302P CHROMIUM EXTRBL.	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED AS	38301P STRONTIUM EXTRBL.	
	SUBM ID	CR MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	MG/L	SR MG/L	
SAMPLES(FLAGS)	0103	7(7)	6(0)	7(2)	7(2)	8(1)	8(1)	3(0)	7(0)	ECHANTILLONS(IND.)
LOW	0056	L.010	1.60	.002	.005	.001	.002	.008	.09	MINIMUM
HIGH		L.010	10.0	.013	.020	.014	.048	.030	.20	MAXIMUM
AVERAGE			4.508	.007*	.012*	.006*	.013*	.0227	.15	MOYENNE
STD.DEV.			3.686	.004*	.006*	.005*	.017*	.0127	.05	ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

10<sup>e</sup> PERCNT

25<sup>e</sup>

50<sup>e</sup> MEDIANE

75<sup>e</sup>

90<sup>e</sup>

CODE DE SECOURS

		42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48302P CADMIUM EXTRBL.	51301P ANTIMONY EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81302P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	
	SUBM ID	MO MG/L	AG MG/L	CD MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	
SAMPLES(FLAGS)	0103	5(5)	7(7)	7(5)	4(3)	7(5)	3(3)	5(5)	7(4)	ECHANTILLONS(IND.)
LOW		L.05	L.01	L.001	.200	L.1	L.05	L.10	L.001	MINIMUM
HIGH		L.05	L.01	L.01	L.50	.1	L.05	L.2	.007	MAXIMUM
AVERAGE				.004*	.375*	.1*			.003*	MOYENNE
STD.DEV.				.004*	.126*	.0*			.003*	ECART-TYPE

PERCNT:10TH

25TH

MEDIAN 50TH

75TH

90TH

SECONDARY CODE

10<sup>e</sup> PERCNT

25<sup>e</sup>

50<sup>e</sup> MEDIANE

75<sup>e</sup>

90<sup>e</sup>

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07HF0001 LAT. 58 D 23M 15 S LONG. 116 D 2M 6 S

UTM 11 556400E 6472000 N  
SEP 23, 1967 TO/A JUN 05, 1974

PEACE RIVER AT FORT VERMILION, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
0001	50(0)		49(0)	50(0)	47(0)	50(0)	50(0)	50(0)	49(0)	
LOW	0056	196.	105.	95.4	5.	2.9	7.3	73.2	-.5	MINIMUM
HIGH		311.	172.	154.	200.	300.	8.4	126.	.6	MAXIMUM
AVERAGE	0033	232.	125.	114.1	27.	39.0		98.3		MOYENNE
STD.DEV.	0003	23.	12.	11.2	32.	57.2		10.2		ECART-TYPE
PERCNT:10TH		205.	111.	103.0	5.	5.3	7.7	85.9	-.2	10 <sup>e</sup> PERCNT
25TH		215.	118.	106.	10.	6.5	7.9	92.0	.0	25 <sup>e</sup>
MEDIAN 50TH		230.	123.	113.0	20.	14.0	8.1	97.7	.2	50 <sup>e</sup> MEDIANE
75TH		244.	131.	117.	30.	45.0	8.2	105.	.3	75 <sup>e</sup>
90TH		262.	141.	129.5	60.	107.5	8.3	110.5	.4	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
0001	49(0)		50(0)	49(0)	49(0)	47(0)	47(0)	49(0)	49(0)	
LOW		.5	2.0	23.9	3.0	0.	89.	.7	12.6	MINIMUM
HIGH	0033	3.4	9.7	45.1	12.7	0.	154.	10.0	40.0	MAXIMUM
AVERAGE	0003	.9	3.6	34.6	6.7	0.	120.	1.6	18.6	MOYENNE
STD.DEV.	0056	.6	1.1	3.8	1.8	0.	13.	1.3	4.8	ECART-TYPE
PERCNT:10TH		.6	2.5	31.2	3.7	0.	105.	.8	14.0	10 <sup>e</sup> PERCNT
25TH		.7	3.1	32.7	6.2	0.	113.	1.1	15.4	25 <sup>e</sup>
MEDIAN 50TH		.7	3.5	34.0	6.6	0.	120.	1.4	17.6	50 <sup>e</sup> MEDIANE
75TH		.8	3.9	36.3	7.5	0.	128.	1.6	20.0	75 <sup>e</sup>
90TH		1.4	4.4	40.4	8.3	0.	138.	2.2	23.0	90 <sup>e</sup>

SECONDARY CODE

06L

04L

CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07306L NITROGEN DISSOLVED NITRATE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15314L PHOSPHORUS TOTAL INORG. PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
0001	3(1)		43(11)		12(8)	11(9)	6(5)	8(1)	9(2)	
LOW	0003	L.5	L.001		L.1	L.002	L.002	L.001	L.005	MINIMUM
HIGH	0056	1.8	.290		.1	.010	.013	.049	.430	MAXIMUM
AVERAGE		1.0*	.054*		.1*	.003*	.004*	.018*	.066*	MOYENNE
STD.DEV.	0033	.7*	.067*		.0*	.003*	.004*	.019*	.139*	ECART-TYPE
PERCNT:10TH			L.005		L.1	L.002				10 <sup>e</sup> PERCNT
25TH			L.005		L.1	L.002	L.002	.003	.007	25 <sup>e</sup>
MEDIAN 50TH		.7	.030		L.1	L.002	L.002	.010	.009	50 <sup>e</sup> MEDIANE
75TH			.070		.1	L.002	L.002	.036	.020	75 <sup>e</sup>
90TH			.170		.1	.007				90 <sup>e</sup>

SECONDARY CODE

02L

05L

55L

64L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07HF0001 LAT. 58 D 23 M 15 S LONG. 116 D 2 M 6 S

UTM 11 556400 E 6472000 N

SEP 23 1967 TO/A JUN 05 1974

## PEACE RIVER AT FORT VERMILION ALBERTA

		14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06532P PHENOLIC MATERIAL	06711L CHLORO- PHYLL A	10711P NTA NITRLOTRI ACETIC AC. H3NTA	09104L FLUORIDE DISSOLVED	10151L ALKALINITY PHENOL PHTHALEIN CACO3	
	SUBM ID	SiO2 MG/L	C MG/L	C MG/L	MG/L	MG/L	MG/L	F MG/L	MG/L	
SAMPLES(FLAGS)	0001	49(0)	8(0)	8(0)	3(0)	3(0)	1(1)	22(6)	47(0)	ECHANTILLONS(IND.)
LOW		2.6	3.0	8.0	.005	.011	L.01	L.05	.0	MINIMUM
HIGH	0033	4.9	14.0	25.0	.012	.016	L.01	.60	.4	MAXIMUM
AVERAGE	0003	3.74	7.3	19.6	.008	.0130		.11*	.0	MOYENNE
STD.DEV.	0056	.61	3.5	5.6	.004	.0026		.11*	.1	ECART-TYPE
PERCNT:10TH		3.0						.05	.0	10 <sup>e</sup> PERCNT
25TH		3.3	4.5	17.0				.06	.0	25 <sup>e</sup>
MEDIAN 50TH		3.7	7.5	21.5	.008	.012		.08	.0	50 <sup>e</sup> MEDIANE
75TH		4.2	8.5	23.5				.10	.0	75 <sup>e</sup>
90TH		4.6						.14	.0	90 <sup>e</sup>

SECONDARY CODE

05L

CODE DE SECOURS

		03101L LITHIUM DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13101L ALUMINUM DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	24052L CHROMIUM DISSOLVED	24302P CHROMIUM EXTRBLE.	
	SUBM ID	LI MG/L	LI MG/L	B MG/L	AL MG/L	AL MG/L	V MG/L	CR MG/L	CR MG/L	
SAMPLES(FLAGS)	0003	1(1)	6(4)	4(0)		8(0)	6(5)	1(1)	9(8)	ECHANTILLONS(IND.)
LOW	0103	L.005	L.005	.03		.11	L.05	L.004	L.010	MINIMUM
HIGH	0056	L.005	.067	.12		4.1	.45	L.004	.012	MAXIMUM
AVERAGE			.016*	.06		1.28	.12*		.010*	MOYENNE
STD.DEV.			.025*	.04		1.49	.16*		.001*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			L.005	.03		.16	L.05		L.010	25 <sup>e</sup>
MEDIAN 50TH			L.005	.04		.56	L.05		L.010	50 <sup>e</sup> MEDIANE
75TH			.008	.08		2.30	L.05		L.010	75 <sup>e</sup>
90TH										90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28101L NICKEL DISSOLVED	28302P NICKEL EXTRBLE.	33103L ARSENIC DISSOLVED	
	SUBM ID	MN MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	NI MG/L	NI MG/L	AS MG/L	
SAMPLES(FLAGS)	0103	14(14)	13(4)	18(2)	8(0)	9(6)	1(1)	9(5)	6(2)	ECHANTILLONS(IND.)
LOW	0001	L.010	L.008	L.001	.14	L.001	L.00	L.001	.001	MINIMUM
HIGH	0033	L.010	1.95	.120	16.5	.050	L.00	.087	.016	MAXIMUM
AVERAGE	0003		.198*	.033*	3.035	.010*		.017*	.0090*	MOYENNE
STD.DEV.	0056		.530*	.034*	5.731	.015*		.027*	.0061*	ECART-TYPE
PERCNT:10TH		L.010	L.01	L.001						10 <sup>e</sup> PERCNT
25TH		L.010	L.01	.010	.260	L.001		.005	L.005	25 <sup>e</sup>
MEDIAN 50TH		L.010	.03	.025	.450	.005		L.01	.0090*	50 <sup>e</sup> MEDIANE
75TH		L.010	.06	.040	3.110	L.01		L.01	.014	75 <sup>e</sup>
90TH		L.010	.25	.110						90 <sup>e</sup>

SECONDARY CODE

04L

05P 04L

04L

02L

01P

01P

04L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB-BASIN

STATION **00AL07HF0001** LAT. **58 D 23M 15 S** LONG. **116 D 2M 6 S**

UTM **11 556400E 6472000 N**  
SEP 23, 1967 TO/A JUN 05, 1974

PEACE RIVER AT FORT VERMILION, ALBERTA

		29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30305P ZINC EXTRBLE.	34102L SELENIUM DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	
	SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	
<b>SAMPLES(FLAGS)</b>	0001	6(2)	16(6)	6(3)	16(7)		9(0)	9(9)	9(9)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	<b>L.001</b>	<b>.001</b>	<b>L.001</b>	<b>.002</b>		<b>.06</b>	<b>L.05</b>	<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>	0103	<b>.02</b>	<b>.055</b>	<b>.013</b>	<b>.10</b>		<b>.45</b>	<b>L.05</b>	<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.006*</b>	<b>.010*</b>	<b>.006*</b>	<b>.016*</b>		<b>.16</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>	0056	<b>.008*</b>	<b>.013*</b>	<b>.005*</b>	<b>.024*</b>		<b>.11</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	0033		<b>.001</b>		<b>.003</b>					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.002</b>	<b>.002</b>	<b>.001</b>	<b>.005</b>		<b>.12</b>	<b>L.05</b>	<b>L.01</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.002</b>	<b>L.010</b>	<b>.006*</b>	<b>L.010</b>		<b>.12</b>	<b>L.05</b>	<b>L.01</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.01</b>	<b>L.010</b>	<b>L.01</b>	<b>L.010</b>		<b>.16</b>	<b>L.05</b>	<b>L.01</b>	<b>75<sup>e</sup></b>
<b>90TH</b>			<b>.02</b>		<b>.039</b>					<b>90<sup>e</sup></b>
SECONDARY CODE		06L	06L 06P	04L	04L 04P					CODE DE SECOURS

		48301P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	92101L URANIUM DISSOLVED	
	SUBM ID	CD MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	U MG/L	
<b>SAMPLES(FLAGS)</b>	0103	9(6)	5(4)	9(5)	4(4)	6(6)	6(6)	15(12)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0033	<b>L.001</b>	<b>.027</b>	<b>L.1</b>	<b>L.05</b>	<b>L.10</b>	<b>L.001</b>	<b>L.001</b>	<b>.0014</b>	<b>MINIMUM</b>
<b>HIGH</b>	0001	<b>L.01</b>	<b>L.50</b>	<b>1.7</b>	<b>L.05</b>	<b>L.2</b>	<b>L.05</b>	<b>.025</b>	<b>.0014</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	0003	<b>.005*</b>	<b>.305*</b>	<b>.3*</b>				<b>.008*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	0056	<b>.004*</b>	<b>.190*</b>	<b>.5*</b>				<b>.006*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>L.001</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.001</b>	<b>L.20</b>	<b>L.1</b>	<b>L.05</b>	<b>L.10</b>	<b>L.001</b>	<b>L.001</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.003</b>	<b>L.40</b>	<b>L.1</b>	<b>L.05</b>	<b>L.15</b>	<b>L.001</b>	<b>L.01</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.01</b>	<b>L.40</b>	<b>.2</b>	<b>L.05</b>	<b>L.2</b>	<b>L.05</b>	<b>L.01</b>		<b>75<sup>e</sup></b>
<b>90TH</b>								<b>L.01</b>		<b>90<sup>e</sup></b>
SECONDARY CODE		02P	02P			02P	01L	01L		CODE DE SECOURS

		18130L ALDRIN	18055L BETA- ENDO- SULFAN	18150L HEOD (DIELDRIN)	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	0103	7(7)	8(8)	8(8)	8(8)	8(8)	8(8)	8(8)	8(8)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0003	<b>L.001</b>	<b>L.003</b>	<b>L.002</b>	<b>L.004</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.001</b>	<b>L.003</b>	<b>L.002</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.001</b>	<b>L.003</b>	<b>L.002</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.001</b>	<b>L.003</b>	<b>L.002</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.001</b>	<b>L.003</b>	<b>L.002</b>	<b>L.004</b>	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.003</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
PEACE RIVER SUB BASIN

STATION 00AL07HF0001 LAT. 58 D 23 M 15 S LONG 116 D 2 M 6 S

UTM 11 556400E 6472000 N  
SEP 01 1971 TO/A JUN 05 1974

PEACE RIVER AT FORT VERMILION ALBERTA

		18070L GAMMA- BHC (LINDANE)	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	18520L MCPA	18030L P,P- METHOXY CHLOR	18500L 2,4-D	18510L 2,4,5-T	18550L 2,4-DB	
	SURM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	8(8)	8(8)	8(8)	4(4)	8(8)	6(5)	6(5)	5(5)	ECHANTILLONS(IND.)
LOW	0003	L.001	L.001	L.002	L.2	L.012	L.004	L.001	L.006	MINIMUM
HIGH		L.001	L.001	L.002	L.2	L.012	.07	L.002	L.009	MAXIMUM
AVERAGE							.015*	.002*		MOYENNE
STD.DEV.							.027*	.000*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.001	L.001	L.002	L.200	L.012	L.004	.001	L.009	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	L.002	L.200	L.012	L.004	L.002	L.009	50 <sup>e</sup> MEDIANE
75TH		L.001	L.001	L.002	L.200	L.012	L.004	L.002	L.009	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		18160L AROCLOR 1254 (PCB'S)	18161L AROCLOR 1248 (PCB'S)	18162L AROCLOR 1260 (PCB'S)	
	SURM ID	UG/L	UG/L	UG L	
SAMPLES(FLAGS)	0003	5(5)	5(5)	4(4)	ECHANTILLONS(IND.)
LOW	0103	L.03	L.02	L.055	MINIMUM
HIGH		L.032	L.024	L.06	MAXIMUM
AVERAGE					MOYENNE
STD.DEV.					ECART-TYPE
PERCNT:10TH					10 <sup>e</sup> PERCNT
25TH		L.03	L.02	L.055	25 <sup>e</sup>
MEDIAN 50TH		L.03	L.02	L.055	50 <sup>e</sup> MEDIANE
75TH		L.032	L.024	L.057	75 <sup>e</sup>
90TH					90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07HF0002** LAT. **57 D 44 M 39 S** LONG. **117 D 37 M 21 S**UTM **11 463000E 6400200 N**  
AUG 12, 1969 TO/A OCT 27, 1973KEG RIVER AT KEG RIVER CABINS,  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>3(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>2(0)</b>	<b>3(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>178.</b>	<b>101.</b>	<b>74.0</b>	<b>65.</b>	<b>13.0</b>	<b>7.8</b>	<b>56.0</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>580.</b>	<b>323.</b>	<b>230.</b>	<b>180.</b>	<b>120.</b>	<b>8.1</b>	<b>209.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>426.</b>	<b>212.</b>	<b>152.0</b>	<b>132.</b>	<b>50.3</b>		<b>147.3</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>217.</b>	<b>157.</b>	<b>110.3</b>	<b>60.</b>	<b>60.4</b>		<b>80.7</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>520.</b>	<b>212.</b>	<b>152.0</b>	<b>150.</b>	<b>18.0</b>	<b>7.9</b>	<b>177.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>3(0)</b>	<b>2(0)</b>	<b>3(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>3(0)</b>	<b>2(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.3</b>	<b>11.0</b>	<b>27.0</b>	<b>1.6</b>	<b>0.</b>	<b>68.</b>	<b>1.7</b>	<b>25.0</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>1.9</b>	<b>30.0</b>	<b>64.0</b>	<b>17.0</b>	<b>0.</b>	<b>216.</b>	<b>2.3</b>	<b>102.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>1.0</b>	<b>20.5</b>	<b>50.7</b>	<b>9.3</b>	<b>0.</b>	<b>142.</b>	<b>2.0</b>	<b>63.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.8</b>	<b>13.4</b>	<b>20.6</b>	<b>10.9</b>	<b>0.</b>	<b>104.</b>	<b>.3</b>	<b>54.4</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.9</b>	<b>20.5</b>	<b>61.2</b>	<b>9.3</b>	<b>0.</b>	<b>142.</b>	<b>1.9</b>	<b>63.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>3(0)</b>	<b>3(0)</b>				<b>2(0)</b>	<b>2(0)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.5</b>	<b>.010</b>				<b>.037</b>	<b>6.3</b>	<b>14.0</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>1.6</b>	<b>.030</b>				<b>.150</b>	<b>7.1</b>	<b>39.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>1.0</b>	<b>.017</b>				<b>.094</b>	<b>6.7</b>	<b>24.7</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.6</b>	<b>.011</b>				<b>.080</b>	<b>.6</b>	<b>12.9</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.9</b>	<b>.011</b>				<b>.094</b>	<b>6.7</b>	<b>21.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 00AL07HF0002 LAT. 57 D 44 M 39 S LONG. 117 D 37 M 21 S

UTM 11 463000E 6400200 N  
AUG 12 1969 TO/A OCT 27 1973KEG RIVER AT KEG RIVER CABINS  
ALBERTA

	SUBM ID	06711L CHLORO- PHYLL A MG/L	09105L FLUORIDE DISSOLVED MG/L	03301P LITHIUM EXTRBLE MG/L	05105L BORON DISSOLVED MG/L	13302P ALUMINUM EXTRBLE MG/L	23301P VANADIUM EXTRBLE MG/L	25101L MANGANESE DISSOLVED MG/L	25304P MANGANESE EXTRBLE MG/L	
SAMPLES(FLAGS)	0003	2(1)	3(0)	6(0)	3(0)	7(1)	5(5)	1(1)	8(1)	ECHANTILLONS(IND.)
LOW	0103	L.001	.12	.018	.16	L.10	L.05	L.010	L.01	MINIMUM
HIGH		.018	.25	.052	.34	13.	L.05	L.010	.51	MAXIMUM
AVERAGE		.0095*	.17	.029	.22	3.114*			.15*	MOYENNE
STD.DEV.		.0120*	.07	.013	.10	4.425*			.17*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				.019		1.1	L.05		.04	25 <sup>e</sup>
MEDIAN 50TH		.0095*	.13	.026	.16	1.6	L.05		.10	50 <sup>e</sup> MEDIANE
75TH				.036		2.6	L.05		.19	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

	SUBM ID	24302P CHROMIUM EXTRBLE MG/L	26304P IRON EXTRBLE MG/L	27302P COBALT EXTRBLE MG/L	28302P NICKEL EXTRBLE MG/L	29305P COPPER EXTRBLE MG/L	30305P ZINC EXTRBLE MG/L	33103L ARSENIC DISSOLVED MG/L	38301P STRONTIUM EXTRBLE MG/L	
SAMPLES(FLAGS)	0103	8(8)	7(0)	8(3)	8(3)	7(0)	8(1)	3(0)	8(0)	ECHANTILLONS(IND.)
LOW	0003	L.010	2.00	L.001	.005	.001	.003	.014	.06	MINIMUM
HIGH		L.010	20.4	.017	.019	.021	.08	.030	.26	MAXIMUM
AVERAGE			6.743	.007*	.012*	.008	.023*	.0247	.18	MOYENNE
STD.DEV.			6.540	.006*	.005*	.007	.028*	.0092	.07	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.010	2.50	.003	.009*	.002	.004		.15	25 <sup>e</sup>
MEDIAN 50TH		L.010	4.30	.007*	L.010	.005	.007*	.030	.20	50 <sup>e</sup> MEDIANE
75TH		L.010	9.70	.011*	.016	.013	.038		.23	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P			04P			CODE DE SECOURS

	SUBM ID	42301P MOLYBDENUM EXTRBLE MG/L	47301P SILVER EXTRBLE MG/L	48302P CADMIUM EXTRBLE MG/L	51301P ANTIMONY EXTRBLE MG/L	56301P BARIUM EXTRBLE MG/L	80311P MERCURY EXTRBLE UG/L	81302P THALLIUM EXTRBLE MG/L	82302P LEAD EXTRBLE MG/L	
SAMPLES(FLAGS)	0003	6(6)	8(8)	8(5)	5(4)	8(2)	3(3)	6(6)	8(5)	ECHANTILLONS(IND.)
LOW	0103	L.05	L.01	L.001	.20	L.1	L.05	L.10	L.001	MINIMUM
HIGH		L.05	L.01	L.01	L.50	.3	L.05	L.2	.007	MAXIMUM
AVERAGE				.004*	.380*	.2*			.003*	MOYENNE
STD.DEV.				.004*	.110*	.1*			.003*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.05	L.01	L.001	L.40	.1*		L.10	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.01	.002	L.40	.1	L.05	L.20	L.001	50 <sup>e</sup> MEDIANE
75TH		L.05	L.01	.006*	L.40	2		L.2	.006	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P			01P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07JD0001** LAT. **58 D 18 M** LONG. **115 D 23 M**UTM **11 594000E 6462000 N**  
MAY 14, 1969 TO/À OCT 05, 1977WABASCA RIVER AT WADLIN LAKE ROAD,  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	0001	35(0)	35(0)	32(0)	33(2)	35(0)	35(0)	35(0)	34(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0004	<b>145.</b>	<b>89.</b>	<b>65.6</b>	<b>40.</b>	<b>2.3</b>	<b>6.9</b>	<b>55.0</b>	<b>-1.2</b>	<b>MINIMUM</b>
<b>HIGH</b>	0056	<b>523.</b>	<b>294.</b>	<b>234.</b>	<b>160.</b>	<b>180.</b>	<b>8.4</b>	<b>220.</b>	<b>1.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>292.</b>	<b>169.</b>	<b>140.7</b>	<b>85.*</b>	<b>41.2</b>		<b>111.2</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>98.</b>	<b>56.</b>	<b>44.7</b>	<b>33.*</b>	<b>47.9</b>		<b>38.1</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>197.</b>	<b>113.</b>	<b>92.0</b>	<b>45.</b>	<b>3.7</b>	<b>7.3</b>	<b>71.3</b>	<b>-.9</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>217.</b>	<b>126.</b>	<b>108.5</b>	<b>60.</b>	<b>6.2</b>	<b>7.5</b>	<b>82.4</b>	<b>-.4</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>248.</b>	<b>149.</b>	<b>124.5</b>	<b>80.</b>	<b>15.0</b>	<b>7.6</b>	<b>98.9</b>	<b>-.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>393.</b>	<b>229.</b>	<b>183.0</b>	<b>G100.</b>	<b>72.0</b>	<b>7.9</b>	<b>149.</b>	<b>.1</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>413.</b>	<b>244.</b>	<b>203.</b>	<b>120.</b>	<b>102.</b>	<b>8.1</b>	<b>163.</b>	<b>.4</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	0001	35(0)	35(0)	32(0)	33(0)	34(0)	34(0)	35(0)	34(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	<b>1.2</b>	<b>3.8</b>	<b>17.5</b>	<b>.5</b>	<b>0.</b>	<b>67.</b>	<b>1.2</b>	<b>17.</b>	<b>MINIMUM</b>
<b>HIGH</b>	0004	<b>3.8</b>	<b>20.9</b>	<b>64.4</b>	<b>17.8</b>	<b>2.</b>	<b>265.</b>	<b>7.9</b>	<b>63.2</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>2.2</b>	<b>9.9</b>	<b>42.1</b>	<b>8.6</b>	<b>0.</b>	<b>135.</b>	<b>2.7</b>	<b>36.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.8</b>	<b>4.8</b>	<b>11.9</b>	<b>4.3</b>	<b>0.</b>	<b>47.</b>	<b>1.5</b>	<b>13.2</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>1.4</b>	<b>5.8</b>	<b>29.</b>	<b>3.5</b>	<b>0.</b>	<b>87.</b>	<b>1.3</b>	<b>22.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>1.5</b>	<b>6.4</b>	<b>34.3</b>	<b>5.6</b>	<b>0.</b>	<b>100.</b>	<b>1.5</b>	<b>25.4</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>2.2</b>	<b>7.6</b>	<b>39.5</b>	<b>7.8</b>	<b>0.</b>	<b>120.</b>	<b>2.2</b>	<b>32.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>3.0</b>	<b>14.0</b>	<b>53.3</b>	<b>10.8</b>	<b>0.</b>	<b>182.</b>	<b>3.7</b>	<b>49.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>3.2</b>	<b>17.7</b>	<b>57.0</b>	<b>15.0</b>	<b>0.</b>	<b>199.</b>	<b>4.8</b>	<b>55.3</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										06L 03L 06L CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	0001	13(3)	27(6)	3(0)	3(0)	7(0)	13(0)	32(0)	18(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0004	<b>L.1</b>	<b>L.001</b>	<b>.1</b>	<b>.003</b>	<b>.016</b>	<b>.008</b>	<b>2.6</b>	<b>21.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	0056	<b>1.8</b>	<b>.490</b>	<b>.5</b>	<b>.023</b>	<b>.043</b>	<b>.500</b>	<b>11.4</b>	<b>41.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.9*</b>	<b>.130*</b>	<b>.3</b>	<b>.012</b>	<b>.026</b>	<b>.156</b>	<b>5.6</b>	<b>28.1</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.6*</b>	<b>.144*</b>	<b>.2</b>	<b>.010</b>	<b>.010</b>	<b>.168</b>	<b>2.2</b>	<b>6.0</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.1</b>	<b>L.005</b>				<b>.010</b>	<b>3.0</b>	<b>22.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.7</b>	<b>.01</b>			<b>.019</b>	<b>.057</b>	<b>3.7</b>	<b>25.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.9</b>	<b>.08</b>	<b>.4</b>	<b>.010</b>	<b>.022</b>	<b>.084</b>	<b>5.5</b>	<b>27.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>1.3</b>	<b>.250</b>			<b>.037</b>	<b>.15</b>	<b>6.9</b>	<b>29.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>1.8</b>	<b>.340</b>				<b>.46</b>	<b>8.5</b>	<b>41.0</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										02L 05L 06L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79

PEACE RIVER SUB BASIN

STATION 00AL07JD0001 LAT. 58 D 18M

LONG. 115 D 23M

UTM 11 594000E 6462000 N  
MAY 14 1969 TO/A OCT 05 1977

WABASCA RIVER AT WADLIN LAKE ROAD  
ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	4(2)	20(3)			10(1)		8(5)	12(2)	ECHANTILLONS(IND.)
LOW	0056	L.005	L.05			.08		L.010	L.01	MINIMUM
HIGH	0004	.032	.31			2.32		.11	.19	MAXIMUM
AVERAGE		.0120*	.11*			.587*		.024*	.08*	MOYENNE
STD.DEV.		.0133*	.06*			.806*		.035*	.06*	ECART-TYPE
PERCNT:10TH			.05*			.090*			L.01	10 <sup>e</sup> PERCNT
25TH		L.0050	.09			.14		L.010	.03	25 <sup>e</sup>
MEDIAN 50TH		.0055*	.10			.215		L.010	.07	50 <sup>e</sup> MEDIANE
75TH		.0190	.12			.50		.015	.13	75 <sup>e</sup>
90TH			.15			2.085			.18	90 <sup>e</sup>
SECONDARY CODE			06L 04L			05P		04L	04L	CODE DE SECOURS

		24302P CHROMIUM EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STROMIUM EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	9(9)	10(0)	10(2)	10(2)	13(4)	13(4)		3(0)	ECHANTILLONS(IND.)
LOW	0056	L.01	.59	L.001	.002	L.001	L.001		.08	MINIMUM
HIGH		L.015	8.6	.005	.013	.020	.27		.10	MAXIMUM
AVERAGE			2.317	.002*	.005*	.007*	.033*		.09	MOYENNE
STD.DEV.			2.909	.001*	.003*	.006*	.072*		.01	ECART-TYPE
PERCNT:10TH			.610	L.001	.003	.001	.001			10 <sup>e</sup> PERCNT
25TH		L.010	.67	.001	.004	.002	.004			25 <sup>e</sup>
MEDIAN 50TH		L.015	1.050	.002	L.005	.004	L.01		.10	50 <sup>e</sup> MEDIANE
75TH		L.015	1.58	.003	.006	L.01	.030			75 <sup>e</sup>
90TH			7.750	.005	.010	.013	.039			90 <sup>e</sup>
SECONDARY CODE						06L	04L			CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	9(9)		10(8)		10(7)			10(7)	ECHANTILLONS(IND.)
LOW		L.05		L.001		L.0			L.001	MINIMUM
HIGH		L.10		.001		.2			.005	MAXIMUM
AVERAGE				.001*		.1*			.004*	MOYENNE
STD.DEV.				.000*		.0*			.001*	ECART-TYPE
PERCNT:10TH				L.001		L.0			L.002	10 <sup>e</sup> PERCNT
25TH		L.05		L.001		L.0			L.004	25 <sup>e</sup>
MEDIAN 50TH		L.10		L.001		.1*			.004	50 <sup>e</sup> MEDIANE
75TH		L.1		L.001		L.1			L.005	75 <sup>e</sup>
90TH				.001		.1			.005*	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07JD0003** LAT. **58 D 15M** LONG. **115 D 49M**UTM **11 570000E 6456000 N**  
AUG 24, 1973 TO/A OCT 28, 1973BEAR RIVER SOUTH OF FORT VERMILION,  
ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0103	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	MINIMUM
HIGH		398.	248.	166.	100.	16.0	7.8	108.	.0	MAXIMUM
AVERAGE		518.	336.	240.	120.	115.	7.8	172.	.4	MOYENNE
STD.DEV.		458.	292.	203.0	110.	65.5		140.0		ECART-TYPE
		85.	62.	52.3	14.	70.0		45.3		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		458.	292.	203.0	110.	65.5	7.8	140.0	.2	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0103	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	MINIMUM
HIGH		3.6	25.0	48.0	11.2	0.	132.	4.7	91.0	MAXIMUM
AVERAGE		4.3	35.0	71.0	15.2	0.	210.	7.2	100.	MOYENNE
STD.DEV.		3.9	30.0	59.5	13.2	0.	171.	6.0	95.5	ECART-TYPE
		.5	7.1	16.3	2.8	0.	55.	1.8	6.4	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		3.9	30.0	59.5	13.2	0.	171.	6.0	95.5	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0103	2(0)	2(0)				2(0)	2(0)	2(0)	MINIMUM
HIGH		1.1	.015				.044	9.4	30.0	MAXIMUM
AVERAGE		1.2	.050				.180	12.0	34.0	MOYENNE
STD.DEV.		1.2	.033				.112	10.7	32.0	ECART-TYPE
		.1	.025				.096	1.8	2.8	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.2	.033				.112	10.7	32.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07JD0003 LAT. 58 D 15M LONG. 115 D 49M

UTM 11 570000E 6456000N  
AUG 05 1971 TO/A OCT 28 1973BEAR RIVER SOUTH OF FORT VERMILION  
ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE F	03301P LITHIUM LITHIUM EXTRBLE.	05105L BORON BORON EXTRBLE.	13302P ALUMINUM AL EXTRBLE.	23301P VANADIUM V EXTRBLE.	25101L MANGANESE MN DISSOLVED EXTRBLE.	25304P MANGANESE MN EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	2(0)	2(0)	3(0)	2(0)	5(0)	3(3)		5(1)	ECHANTILLONS(IND.)
LOW		.009	.17	.057	.14	.17	L.05		L.01	MINIMUM
HIGH		.022	.26	.081	.15	3.9	L.05		.23	MAXIMUM
AVERAGE		.0155	.22	.071	.15	1.208			.13	MOYENNE
STD.DEV.		.0092	.06	.012	.01	1.605			.09	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH						.20			.08	25 <sup>e</sup>
MEDIAN 50TH		.0155	.22	.075	.15	.27	L.05		.14	50 <sup>e</sup> MEDIANE
75TH						1.5			.18	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		24302P CHROMIUM EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC AS DISSOLVED EXTRBLE.	38301P STRONTIUM SR EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	5(5)	4(0)	5(3)	5(1)	5(2)	5(0)	2(0)	5(0)	ECHANTILLONS(IND.)
LOW		L.010	.43	L.001	L.01	L.001	.002	.009	.16	MINIMUM
HIGH		L.010	6.60	.015	.015	.009	.018	.020	.33	MAXIMUM
AVERAGE			2.833	.006*	.012*	.004*	.008	.0145	.26	MOYENNE
STD.DEV.			2.729	.006*	.002*	.004*	.006	.0078	.07	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.010	.865	L.001	.010	L.001	.007		.22	25 <sup>e</sup>
MEDIAN 50TH		L.010	2.150	.003	.012	.004	.007	.0145	.27	50 <sup>e</sup> MEDIANE
75TH		L.010	4.800	L.01	.012	.007	.008		.30	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P	01P					CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	5(5)	5(5)	5(3)	3(2)	5(4)	2(2)	3(3)	5(4)	ECHANTILLONS(IND.)
LOW		L.05	L.01	L.001	.20	L.1	L.05	L.10	L.001	MINIMUM
HIGH		L.05	L.01	L.01	L.50	.1	L.05	L.2	L.01	MAXIMUM
AVERAGE				.003*	.367*	.1*			.003*	MOYENNE
STD.DEV.				.004*	.153*	.0*			.004*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.05	L.01	L.001		L.1			L.001	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.01	.002	L.40	L.1	L.05	L.10	L.001	50 <sup>e</sup> MEDIANE
75TH		L.05	L.01	.002		L.1			.004	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P				01P	01P	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07JF0001

LAT. 58 D 32 M

LONG. 116 D 22 M

UTM 11 536000E 6488000 N  
AUG 11, 1969 TO/À JUN 05, 1974

PONTON RIVER AT ROCKY LANE, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0103	5(0)	5(0)	5(0)	4(0)	5(0)	5(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	0003	126.	73.	54.0	80.	2.5	7.4	33.0	-1.2	MINIMUM
HIGH		254.	139.	99.0	180.	95.0	8.3	61.0	.2	MAXIMUM
AVERAGE		184.	105.	78.4	135.	40.4		47.9		MOYENNE
STD.DEV.		55.	29.	18.3	42.	41.6		11.5		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		131.	77.	66.0	105.	8.4	7.5	39.0	-.8	25 <sup>e</sup>
MEDIAN 50TH		196.	108.	82.2	140.	22.0	7.7	53.0	-.7	50 <sup>e</sup> MEDIANE
75TH		215.	125.	91.0	165.	74.0	7.8	53.6	-.6	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0003	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	0103	.6	5.0	20.0	1.0	0.	40.	2.1	21.0	MINIMUM
HIGH		.9	11.0	32.0	5.7	0.	74.	3.4	51.0	MAXIMUM
AVERAGE		.8	8.0	25.5	3.6	0.	58.	2.7	35.2	MOYENNE
STD.DEV.		.1	2.7	4.7	1.8	0.	14.	.6	13.2	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.8	5.5	22.0	2.7	0.	48.	2.4	24.0	25 <sup>e</sup>
MEDIAN 50TH		.8	8.3	26.5	3.9	0.	65.	2.4	34.1	50 <sup>e</sup> MEDIANE
75TH		.8	10.0	27.0	4.6	0.	65.	3.4	46.0	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE								06L	03L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0103	5(0)	5(2)		1(0)		5(0)	5(0)	4(0)	ECHANTILLONS(IND.)
LOW	0003	.5	L.001		.007		.009	2.0	4.0	MINIMUM
HIGH		1.1	.120		.007		.230	8.8	34.0	MAXIMUM
AVERAGE		.8	.041*				.076	3.6	19.0	MOYENNE
STD.DEV.		.2	.048*				.091	2.9	12.3	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.7	L.005				.022	2.2	11.0	25 <sup>e</sup>
MEDIAN 50TH		.8	.030				.036	2.3	19.0	50 <sup>e</sup> MEDIANE
75TH		.9	.050				.083	2.5	27.0	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		02L	05L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07JF0001 LAT. 58 D 32M LONG. 116 D 22M

UTM 11 536000E 6488000N

AUG 11 1969 TO/A JUN 05 1974

PONTON RIVER AT ROCKY LANE ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE	
	SUBM ID	MG/L	F MG/L	LI MG/L	B MG/L	AL MG/L	V MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS)	0003	3(1)	5(0)	4(0)	5(0)	8(3)	3(3)	1(1)	8(1)	ECHANTILLONS(IND.)
LOW	0103	L.001	.05	.006	.12	L.10	L.05	L.010	L.01	MINIMUM
HIGH		.010	.26	.014	.25	3.2	L.05	L.010	.09	MAXIMUM
AVERAGE		.0067*	.11	.011	.15	.890*			.06*	MOYENNE
STD.DEV.		.0049*	.09	.003	.05	1.073*			.03*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.07	.009	.13	L.100			.05	25 <sup>e</sup>
MEDIAN 50TH		.009	.08	.012	.13	.610	L.05		.06	50 <sup>e</sup> MEDIANE
75TH			.08	.013	.14	1.200			.08	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		24302P CHROMIUM EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	
	SUBM ID	CR MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	
SAMPLES(FLAGS)	0103	8(8)	7(0)	8(3)	8(1)	9(3)	9(1)	4(1)	8(1)	ECHANTILLONS(IND.)
LOW	0003	L.010	.41	L.001	.005	L.001	.002	.0008	L.02	MINIMUM
HIGH		L.010	6.80	.014	.013	L.01	.06	.020	.08	MAXIMUM
AVERAGE			2.879	.005*	.010*	.006*	.016*	.0092*	.06*	MOYENNE
STD.DEV.			2.368	.005*	.003*	.003*	.018*	.0083*	.02*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.010	.84	.001*	.007	.003	.008	.0029*	.05	25 <sup>e</sup>
MEDIAN 50TH		L.010	2.20	.003	.011*	.007	.009	.0080*	.06	50 <sup>e</sup> MEDIANE
75TH		L.010	4.80	.007*	.013	.008	.011	.0155	.07	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P	01P	05L	04L 04P	04L		CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82302P LEAD EXTRBLE.	
	SUBM ID	MO MG/L	AG MG/L	CD MG/L	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	
SAMPLES(FLAGS)	0103	7(7)	8(8)	8(6)	3(3)	8(6)	5(5)	4(4)	8(7)	ECHANTILLONS(IND.)
LOW	0003	L.05	L.01	L.001	L.20	L.1	L.05	L.10	L.001	MINIMUM
HIGH		L.05	L.01	L.01	L.50	.1	L.05	L.2	.005	MAXIMUM
AVERAGE				.002*		.1*			.001*	MOYENNE
STD.DEV.				.003*		.0*			.001*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.05	L.01	L.001		L.1	L.05	L.10	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.01	L.001	L.40	L.1	L.05	L.15	L.001	50 <sup>e</sup> MEDIANE
75TH		L.05	L.01	.002		.1*	L.05	L.20	L.001	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P				01P		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07JF0003** LAT. **58 D 30 M** LONG. **115 D 54 M**UTM **11 564000 E 6484000 N**

AUG 11, 1969 TO/À JAN 11, 1974

CARIBOU RIVER EAST OF ROCKY LANE,  
ALBERTA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	0056	4(0)	3(0)	3(0)	4(0)	3(0)	4(0)	3(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0103	162.	96.	83.6	60.	8.7	7.4	38.0	<b>MINIMUM</b>
<b>HIGH</b>		1630.	1061.	587.	300.	69.0	7.7	163.	<b>MAXIMUM</b>
<b>AVERAGE</b>		681.	500.	299.9	187.	30.7	99.3		<b>MOYENNE</b>
<b>STD.DEV.</b>		650.	501.	259.1	121.	27.1	51.6		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		289.			11.8		63.7		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		467.	344.	229.	200.	22.5	98.2	.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		1074.			49.5	7.6	135.0		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	0103	4(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	.5	6.0	53.0	5.8	0.	46.	3.5	<b>MINIMUM</b>
<b>HIGH</b>		3.8	120.	152.	50.4	0.	199.	47.0	<b>MAXIMUM</b>
<b>AVERAGE</b>		1.7	51.3	93.0	22.3	0.	125.	20.2	<b>MOYENNE</b>
<b>STD.DEV.</b>		1.4	60.5	52.2	24.4	0.	76.	23.5	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.9							<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		1.2	28.0	74.0	10.7	0.	130.	10.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		2.5							<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	
<b>SAMPLES(FLAGS)</b>	0103	4(0)	4(2)			2(0)	3(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	.5	L.001			.040	4.8	13.0	<b>MINIMUM</b>
<b>HIGH</b>		.9	.100			.086	7.6	47.0	<b>MAXIMUM</b>
<b>AVERAGE</b>		.8	.034*			.063	6.1	28.5	<b>MOYENNE</b>
<b>STD.DEV.</b>		.2	.046*			.033	1.4	14.4	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.7	L.003					18.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.8	.017*			.063	6.0	27.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.9	.065					39.0	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE			05L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AL07JF0003

LAT. 58 D 30 M

LONG. 115 D 54 M

UTM 11 564000E 6484000N  
AUG 11 1969 TO/A JAN 11 1974CARIBOU RIVER EAST OF ROCKY LANE  
ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED F	03301P LITHIUM EXTRBLE. LI	05105L BORON DISSOLVED B	13302P ALUMINUM EXTRBLE. AL	23301P VANADIUM EXTRBLE. V	25101L MANGANESE DISSOLVED MN	25304P MANGANESE EXTRBLE. MN	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	1(0)	4(0)	4(0)	4(0)	7(1)	3(3)	1(1)	7(1)	ECHANTILLONS(IND.)
LOW	0056	.007	.09	.006	.21	L.10	L.05	L.010	L.01	MINIMUM
HIGH		.007	.27	.048	.25	3.3	L.05	L.010	.31	MAXIMUM
AVERAGE			.16	.032	.23	.806*			.12*	MOYENNE
STD.DEV.			.08	.020	.02	1.152*			.11*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.11	.017	.22	.16			.06	25 <sup>e</sup>
MEDIAN 50TH			.15	.037	.23	.18	L.05		.08	50 <sup>e</sup> MEDIANE
75TH			.22	.047	.24	1.0			.23	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		24302P CHROMIUM EXTRBLE. CR	26304P IRON EXTRBLE. FE	27302P COBALT EXTRBLE. CO	28302P NICKEL EXTRBLE. NI	29305P COPPER EXTRBLE. CU	30305P ZINC EXTRBLE. ZN	33103L ARSENIC DISSOLVED AS	38301P STRONTIUM EXTRBLE. SR	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	7(7)	6(0)	7(2)	7(1)	7(0)	6(0)	3(1)	7(0)	ECHANTILLONS(IND.)
LOW		L.010	.43	L.001	L.01	.002	.002	L.005	.05	MINIMUM
HIGH		L.010	4.60	.012	.058	.010	.072	.015	.27	MAXIMUM
AVERAGE			2.413	.006*	.019*	.005	.020	.0090*	.17	MOYENNE
STD.DEV.			1.583	.005*	.017*	.003	.026	.0053*	.09	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.010	1.05	.002	.011	.002	.005		.06	25 <sup>e</sup>
MEDIAN 50TH		L.010	2.550	.003	.012	.005	.011	.007	.16	50 <sup>e</sup> MEDIANE
75TH		L.010	3.30	.012	.019	.007	.019		.26	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P	01P					CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE. MO	47301P SILVER EXTRBLE. AG	48302P CADMIUM EXTRBLE. CD	51301P ANTIMONY EXTRBLE. SB	56301P BARIUM EXTRBLE. BA	80311P MERCURY EXTRBLE. HG	81302P THALLIUM EXTRBLE. TL	82302P LEAD EXTRBLE. PB	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0103	6(6)	7(7)	7(6)	3(2)	7(7)	4(4)	4(4)	7(7)	ECHANTILLONS(IND.)
LOW		L.05	L.01	L.001	.20	L.1	L.05	L.10	L.001	MINIMUM
HIGH		L.05	L.01	L.01	L.50	L.1	L.05	L.2	L.001	MAXIMUM
AVERAGE				.002*	.367*					MOYENNE
STD.DEV.				.003*	.153*					ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.05	L.01	L.001		L.1	L.05	L.10	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.01	L.001	L.40	L.1	L.05	L.15	L.001	50 <sup>e</sup> MEDIANE
75TH		L.05	L.01	.002		L.1	L.05	L.20	L.001	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01P				01P		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AL07KC0001** LAT. **59 D 6M 51 S** LONG. **112 D 25M 36 S**UTM **12 418300E 6553400 N**

OCT 27, 1967 TO/À MAR 01, 1977

PEACE RIVER AT PEACE POINT, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0001 0056	80(0) 187.	77(0) 98.	80(0) 94.6	76(2) 5.	79(0) 1.7	80(0) 7.1	80(0) 74.0	75(0) -.7	MINIMUM
HIGH		500.	285.	226.	2000.	330.	8.5	180.	.9	MAXIMUM
AVERAGE		257.	141.	124.7	67.*	53.9		101.9		MOYENNE
STD.DEV.		55.	34.	26.7	228.*	79.7		20.6		ECART-TYPE
PERCNT:10TH		207.	108.	102.0	10.	4.0	7.7	83.6	-.3	10 <sup>e</sup> PERCNT
25TH		221.	120.	107.5	15.	6.4	7.9	87.8	-.1	25 <sup>e</sup>
MEDIAN 50TH		240.	131.	115.5	30.	17.0	8.0	97.0	.1	50 <sup>e</sup> MEDIANE
75TH		276.	149.	133.0	53.	52.0	8.1	108.5	.3	75 <sup>e</sup>
90TH		332.	200.	163.5	100.	180.	8.3	125.0	.5	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001 0056	78(0) .1	79(0) .4	78(0) 20.0	78(0) 2.0	75(0) 0.	75(0) 90.	78(0) .6	78(0) 9.6	MINIMUM
HIGH		3.4	19.0	63.0	17.7	0.	219.	9.9	67.0	MAXIMUM
AVERAGE		1.1	4.6	37.5	7.6	0.	122.	2.3	26.3	MOYENNE
STD.DEV.		.7	2.4	7.6	3.1	0.	23.	1.7	11.8	ECART-TYPE
PERCNT:10TH		.7	2.4	30.0	4.6	0.	102.	.9	14.3	10 <sup>e</sup> PERCNT
25TH		.8	3.5	33.3	5.4	0.	107.	1.4	17.5	25 <sup>e</sup>
MEDIAN 50TH		.9	4.3	35.3	6.9	0.	118.	1.8	23.7	50 <sup>e</sup> MEDIANE
75TH		1.2	5.0	41.3	8.7	0.	130.	2.6	32.3	75 <sup>e</sup>
90TH		2.3	6.6	49.9	11.3	0.	151.	4.3	44.8	90 <sup>e</sup>
SECONDARY CODE										06L 06L 03L CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHOPHOSPHATE P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001 0056	8(4) L.1	62(12) L.005	6(4) L.1	5(2) L.002	11(3) L.001	13(0) .007	75(0) 2.0	9(0) 5.	MINIMUM
HIGH		5.1	4.00	.5	.013	.130	1.0	7.8	51.0	MAXIMUM
AVERAGE		1.1*	.142*	.2*	.005*	.021*	.119	3.9	20.6	MOYENNE
STD.DEV.		1.7*	.504*	.2*	.005*	.038*	.277	.9	18.8	ECART-TYPE
PERCNT:10TH			L.005			L.001	.007	3.0		10 <sup>e</sup> PERCNT
25TH		.2*	.020	L.1	L.002	L.001	.010	3.3	8.0	25 <sup>e</sup>
MEDIAN 50TH		.4*	.060	L.1	.003	.007	.020	3.9	11.0	50 <sup>e</sup> MEDIANE
75TH		1.1*	.104	.4	.007	.020	.047	4.2	34.0	75 <sup>e</sup>
90TH			.21			.044	.315	4.9		90 <sup>e</sup>
SECONDARY CODE										02L 05L 06L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07KC0001 LAT. 59 D 6M 51 S LONG. 112 D 25M 36 S

UTM 12 418300E 6553400 N  
OCT 27 1967 TO/A MAR 01 1977

PEACE RIVER AT PEACE POINT, ALBERTA

		06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED F	03301P LITHIUM EXTRBLE. LI	05105L BORON DISSOLVED B	13302P ALUMINUM EXTRBLE. AL	23301P VANADIUM EXTRBLE. V	25101L MANGANESE DISSOLVED MN	25304P MANGANESE EXTRBLE. MN	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	1(0)	34(2)			8(1)		20(20)	14(4)	ECHANTILLONS(IND.)
LOW	0056	.016	L.05			L.1		L.010	L.01	MINIMUM
HIGH		.016	.88			1.9		L.01	.32	MAXIMUM
AVERAGE			.13*			.601*			.06*	MOYENNE
STD.DEV.			.14*			.571*			.09*	ECART-TYPE
PERCNT:10TH			.05					L.010	L.01	10 <sup>e</sup> PERCNT
25TH			.07			.275		L.010	L.01	25 <sup>e</sup>
MEDIAN 50TH			.09*			.415		L.010	.04	50 <sup>e</sup> MEDIANE
75TH			.14			.715		L.010	.06	75 <sup>e</sup>
90TH			.21					L.010	.17	90 <sup>e</sup>
SECONDARY CODE			04L 06L					04L	04L	CODE DE SECOURS

		24302P CHROMIUM EXTRBLE. CR	26304P IRON EXTRBLE. FE	27302P COBALT EXTRBLE. CO	28302P NICKEL EXTRBLE. NI	29305P COPPER EXTRBLE. CU	30305P ZINC EXTRBLE. ZN	33103L ARSENIC DISSOLVED AS	38301P STRONTIUM EXTRBLE. SR	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	7(7)	8(0)	8(4)	8(4)	12(5)	13(5)	1(1)	2(0)	ECHANTILLONS(IND.)
LOW	0056	L.01	.18	L.001	L.002	.002	.005	L.005	.10	MINIMUM
HIGH		L.015	8.0	.007	.020	.021	.087	L.005	.11	MAXIMUM
AVERAGE			2.134	.002*	.007*	.009*	.024*		.11	MOYENNE
STD.DEV.			2.528	.002*	.006*	.005*	.028*		.01	ECART-TYPE
PERCNT:10TH						.003	.006			10 <sup>e</sup> PERCNT
25TH		L.01	.665	L.001	.004*	.005	L.01			25 <sup>e</sup>
MEDIAN 50TH		L.01	1.300	.001*	L.005	L.010	L.01		.11	50 <sup>e</sup> MEDIANE
75TH		L.015	2.480	.003	.007	L.010	.013			75 <sup>e</sup>
90TH						.014	.071			90 <sup>e</sup>
SECONDARY CODE						06L	04L 04P			CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE. MO	47301P SILVER EXTRBLE. AG	48302P CADMIUM EXTRBLE. CD	51301P ANTIMONY EXTRBLE. SB	56301P BARIUM EXTRBLE. BA	80311P MERCURY EXTRBLE. HG	81302P THALLIUM EXTRBLE. TL	82302P LEAD EXTRBLE. PB	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	7(7)		8(5)		8(4)			8(6)	ECHANTILLONS(IND.)
LOW		L.05		L.001		L.0			L.004	MINIMUM
HIGH		L.1		.001		.3			.013	MAXIMUM
AVERAGE				.001*		.1*			.006*	MOYENNE
STD.DEV.				.000*		.1*			.003*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.05		L.001		.1			L.004	25 <sup>e</sup>
MEDIAN 50TH		L.10		L.001		L.1			L.005	50 <sup>e</sup> MEDIANE
75TH		L.10		.001		.1*			.005*	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB-BASIN

STATION **00AL07KE0001** LAT. **58 D 18 M 30 S** LONG. **113 D 4 M 0 S**

UTM **12 379000E 6465000 N**  
MAY 12, 1969 TO/A OCT 19, 1977

BIRCH RIVER BELOW ALICE CREEK,  
ALBERTA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b> 0001	20(0)	20(0)	19(0)	18(3)	19(0)	20(0)	20(0)	20(0)	<b>ECHANTILLONS(IND.)</b>
LOW	190.	103.	51.0	40.	4.9	6.9	27.9	-1.7	<b>MINIMUM</b>
HIGH	6314.	2548.	538.	360.	120.	8.6	402.	1.5	<b>MAXIMUM</b>
AVERAGE	1413.	621.	197.7	176.*	28.5		138.0		<b>MOYENNE</b>
STD.DEV.	1860.	789.	162.4	99.*	29.8		118.9		<b>ECART-TYPE</b>
PERCNT:10TH	209.	114.	53.2	80.	5.4	7.0	38.3	-1.4	<b>10<sup>e</sup> PERCNT</b>
25TH	248.	147.	98.4	G100.	10.0	7.2	57.9	-.8	<b>25<sup>e</sup></b>
MEDIAN 50TH	379.	212.	121.	158.	20.0	7.4	83.6	-.5	<b>50<sup>e</sup> MEDIANE</b>
75TH	2485.	877.	334.	200.	36.0	7.7	198.5	-.2	<b>75<sup>e</sup></b>
90TH	4662.	2029.	522.	360.	80.0	8.1	352.5	1.3	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0001	20(0)	20(0)	19(0)	19(0)	20(0)	20(0)	20(0)	20(0)	<b>ECHANTILLONS(IND.)</b>
LOW	1.0	15.6	16.0	2.2	0.	34.	3.7	21.8	<b>MINIMUM</b>
HIGH	12.5	775.	132.	51.6	1.	490.	1225.	122.	<b>MAXIMUM</b>
AVERAGE	3.5	165.1	52.2	16.4	0.	168.	250.1	52.8	<b>MOYENNE</b>
STD.DEV.	3.3	243.2	38.4	16.8	0.	145.	388.3	35.8	<b>ECART-TYPE</b>
PERCNT:10TH	1.1	16.7	16.1	2.7	0.	47.	16.1	23.1	<b>10<sup>e</sup> PERCNT</b>
25TH	1.6	23.3	25.1	4.8	0.	71.	23.9	26.2	<b>25<sup>e</sup></b>
MEDIAN 50TH	2.2	37.3	34.5	8.8	0.	102.	49.8	32.5	<b>50<sup>e</sup> MEDIANE</b>
75TH	4.5	239.5	94.0	22.4	0.	241.	377.0	80.3	<b>75<sup>e</sup></b>
90TH	8.9	596.5	124.	50.6	0.	430.	935.0	111.5	<b>90<sup>e</sup></b>
SECONDARY CODE							06L	06L 03L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15257L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0001	9(1)	16(2)	3(0)	3(2)	2(0)	10(0)	19(0)	12(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.1	L.005	.2	L.002	.007	.043	3.0	23.0	<b>MINIMUM</b>
HIGH	16.1	.61	2.0	.016	.036	.900	12.3	50.	<b>MAXIMUM</b>
AVERAGE	3.2*	.081*	1.1	.007*	.022	.178	6.5	34.0	<b>MOYENNE</b>
STD.DEV.	5.0*	.145*	.9	.008*	.021	.263	3.1	7.2	<b>ECART-TYPE</b>
PERCNT:10TH		L.01				.052	3.2	25.	<b>10<sup>e</sup> PERCNT</b>
25TH	1.0	.014				.060	3.7	29.5	<b>25<sup>e</sup></b>
MEDIAN 50TH	1.1	.040	1.0	L.002	.022	.080	6.3	34.0	<b>50<sup>e</sup> MEDIANE</b>
75TH	2.6	.085				.10	7.8	37.5	<b>75<sup>e</sup></b>
90TH		.110				.595	12.0	39.	<b>90<sup>e</sup></b>
SECONDARY CODE	02L	05L				06L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AL07KE0001 LAT. 58 D 18 M 30 S LONG. 113 D 4 M 0 S

UTM 12 3790000 6465000 N  
MAY 12 1969 TO: A OCT 19 1977BIRCH RIVER BELOW ALICE CREEK  
ALBERTA

	06711L CHLORO- PHYLL A	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBL.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBL.	23301P VANADIUM EXTRBL.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0001	3(0)	15(2)			9(2)		4(3)	12(1)	ECHANTILLONS(IND.)
LOW	.005	L.01			.055		L.01	L.01	MINIMUM
HIGH	.013	.30			1.05		2.96	2.10	MAXIMUM
AVERAGE	.0083	.14*			.297*		.747*	.49*	MOYENNE
STD.DEV.	.0042	.08*			.313*		1.475*	.71*	ECART-TYPE
PERCNT:10TH		.06						.05	10 <sup>e</sup> PERCNT
25TH		.08			L.1		L.010	.06	25 <sup>e</sup>
MEDIAN 50TH	.007	.10			.23		L.010	.13	50 <sup>e</sup> MEDIANE
75TH		.22			.35		1.485*	.56	75 <sup>e</sup>
90TH		.24						1.8	90 <sup>e</sup>
SECONDARY CODE		06L 04L			05P		04L	04L	CODE DE SECOURS

	24302P CHROMIUM EXTRBL.	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBL.	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0001	9(9)	9(0)	8(2)	9(0)	13(4)	13(6)		4(0)	ECHANTILLONS(IND.)
LOW	L.010	1.34	L.001	.003	L.001	L.001		.10	MINIMUM
HIGH	L.015	5.5	.005	.010	L.01	.094		1.5	MAXIMUM
AVERAGE		3.108	.003*	.007	.006*	.016*		.50	MOYENNE
STD.DEV.		1.325	.002*	.003	.003*	.025*		.67	ECART-TYPE
PERCNT:10TH					.002	L.001			10 <sup>e</sup> PERCNT
25TH	L.015	2.50	.001	.005	.004	.002		.14	25 <sup>e</sup>
MEDIAN 50TH	L.015	3.0	.002*	.007	.005	.008		.19	50 <sup>e</sup> MEDIANE
75TH	L.015	4.1	.004	.009	.008	L.01		.85	75 <sup>e</sup>
90TH					L.01	.034			90 <sup>e</sup>
SECONDARY CODE		05P			06L	04L			CODE DE SECOURS

	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48302P CADMIUM EXTRBL.	51301P ANTIMONY EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81302P THALLIUM EXTRBL.	82302P LEAD EXTRBL.	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0001	9(9)		9(4)		9(5)			10(6)	ECHANTILLONS(IND.)
LOW	L.05		L.001		L.0			L.001	MINIMUM
HIGH	L.10		.012		.4			.006	MAXIMUM
AVERAGE			.002*		.1*			.004*	MOYENNE
STD.DEV.			.004*		.1*			.001*	ECART-TYPE
PERCNT:10TH								L.002	10 <sup>e</sup> PERCNT
25TH	L.10		L.001		L.0			L.004	25 <sup>e</sup>
MEDIAN 50TH	L.10		.001		L.1			.004*	50 <sup>e</sup> MEDIANE
75TH	L.1		.002		1			.004	75 <sup>e</sup>
90TH								.005*	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AT07FD0001** LAT. **55 D 55M 13 S** LONG. **118 D 36M 20 S**UTM **11 399650E 6198150 N**  
FEB 17. 1970 TO/A DEC 12 1978

## PEACE RIVER AT DUNVEGAN

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	41(0)	17(3)	37(0)	14(1)	28(3)	43(0)	38(0)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	177.	94.	88.	15.	1.2	7.3	77.	-.2	<b>MINIMUM</b>
<b>HIGH</b>	395.	233.	250.	80.	180.	8.5	132.	.4	<b>MAXIMUM</b>
<b>AVERAGE</b>	239.	128.*	122.9	25.*	25.5*		102.7		<b>MOYENNE</b>
<b>STD.DEV.</b>	57.	39.*	30.9	24.*	39.4*		14.9		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	182.	97.	95.	5.	4.	7.8	85.		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	193.	Q104.	101.2	5.	6.7	7.9	91.0	.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	225.	110.	114.3	13.	10.0	8.1	101.0	.1	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	265.	138.	144.	50.	18.0	8.2	113.	.3	<b>75<sup>e</sup></b>
<b>90TH</b>	325.	184.	159.	50.	78.	8.3	125.		<b>90<sup>e</sup></b>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	41(0)	41(1)	20(0)	41(0)	34(0)	34(0)	43(9)	43(5)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.4	L1.	21.	3.	0.	94.	.0	8.	<b>MINIMUM</b>
<b>HIGH</b>	10.2	19.	50.	23.	5.	161.	11.	108.	<b>MAXIMUM</b>
<b>AVERAGE</b>	1.3	3.8*	31.64	8.4	0.	125.	2.3*	25.4*	<b>MOYENNE</b>
<b>STD.DEV.</b>	1.7	3.8*	5.52	3.5	1.	18.	2.6*	22.3*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.4	1.0	28.50	6.1	0.	104.	.6	L10.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.5	1.7	29.55	6.5	0.	111.	.7	10.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.8	3.	30.75	7.	0.	123.	L1.	16.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.3	4.	31.90	10.	0.	135.	3.	35.	<b>75<sup>e</sup></b>
<b>90TH</b>	2.2	7.	37.20	12.	0.	152.	6.	58.	<b>90<sup>e</sup></b>
SECONDARY CODE	02L 03L	02L 03L	03L	03L			03L 06L	06L	CODE DE SECOURS

	15407L PHOSPHATE TOTAL P04 MG/L	15419L PHOSPHORUS TOTAL P MG/L	14101L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	06101L CARBON DISSOLVED ORGANIC C MG/L	06151L CARBON DISSOLVED INORGANIC C MG/L	08101L OXYGEN DO MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	8(2)		15(0)	18(1)	18(0)	13(0)	13(0)	26(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.1		3.4	1.	12.	1.	14.	9.5	<b>MINIMUM</b>
<b>HIGH</b>	1.8		106.3	44.	25.	5.	22.	14.5	<b>MAXIMUM</b>
<b>AVERAGE</b>	.71*		11.15	12.3*	19.7	2.6	19.5	11.9	<b>MOYENNE</b>
<b>STD.DEV.</b>	.68*		26.36	11.6*	3.6	1.2	1.9	1.5	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			3.4	L2.	12.	1.	18.	10.0	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.15*		3.8	3.	20.	2.	19.	10.3	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.40		4.0	8.0	20.5	2.	20.	12.2	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.35		4.4	19.	22.	3.	20.	13.2	<b>75<sup>e</sup></b>
<b>90TH</b>			9.3	26.	23.	4.	21.	13.7	<b>90<sup>e</sup></b>
SECONDARY CODE			02L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960.79

## PEACE RIVER SUB BASIN

STATION 00AT07FD0001 LAT. 55 D 55M 13 S LONG. 118 D 36M 20 S

UTM 11 399650 E 6198150 N

FEB 17 1970 TO/A DEC 12 1978

## PEACE RIVER AT DUNVEGAN

SUBM ID	07003L NITROGEN TOTAL KJELDAHL N MG/L	07107L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07602L NITROGEN TOTAL CALCULATED N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL CALCULATED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15406L PHOSPHORUS TOTAL PHOSPHATE P MG/L	ECHANTILLONS(IND.) MINIMUM MAXIMUM MOYENNE ECART-TYPE
SAMPLES(FLAGS)	18(1)	29(15)	17(16)	12(12)	28(20)	15(5)	21(10)	20(1)	
LOW	.1	.0	L.1	L.1	L.05	.083	L.002	.008	
HIGH	1.9	.807	.1	L.1	1.4	2.707	.038	1.8	
AVERAGE	.6*	.124*	.100*		.241*	.770*	.011*	.320*	
STD.DEV.	.5*	.167*	.000*		.311*	.668*	.011*	.510*	
PERCNT:10TH	L.1	.012	L.1	L.1	L.05	Q.170	L.003	.016	10 <sup>e</sup> PERCNT
25TH	.3	.071	L.1	L.100	.070*	.350	L.003	.037	25 <sup>e</sup>
MEDIAN 50TH	.4	L.1	L.1	L.100	L.200	.527	.003	.120	50 <sup>e</sup> MEDIANE
75TH	.9	L.1	L.1	L.100	L.200	Q.950	.019	.350	75 <sup>e</sup>
90TH	1.6	.167	L.1	L.1	.35	1.642	.030	1.200	90 <sup>e</sup>
SECONDARY CODE		06L 11L	06L	06L	55L				CODE DE SECOURS

SUBM ID	08201L OXYGEN BIOCHEM. DEMAND-BOD O2 MG/L	06551L TANNIN AND LIGNIN T&L MG/L	06711L CHLORO - PHYLL A MG/L	06601L CYANIDE CN MG/L	06531L PHENOLIC MATERIAL PHENOL MG/L	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	06500L HYDROCARBONS (ALKANES) MG/L	ECHANTILLONS(IND.) MINIMUM MAXIMUM MOYENNE ECART-TYPE
SAMPLES(FLAGS)	25(9)	25(2)	1(1)	1(1)	28(9)	14(7)	21(12)	8(6)	
LOW	.5	L.1	L.001	L.01	L.001	L.1.0	.03	L.001	
HIGH	6.	3.0	L.001	L.01	.040	36.6	.30	.011	
AVERAGE	1.6*	.61*			.005*	4.3*	.09*	.002*	
STD.DEV.	1.1*	.60*			.009*	9.4*	.07*	.004*	
PERCNT:10TH	L1.0	.1			L.001	L.0.	L.05		10 <sup>e</sup> PERCNT
25TH	L1.0	.3			L.001	L.0.	L.05	L.001	25 <sup>e</sup>
MEDIAN 50TH	1.2	.4			.003	1.0*	L.05	L.001	50 <sup>e</sup> MEDIANE
75TH	1.8	.7			.006	2.7	.10	.001*	75 <sup>e</sup>
90TH	2.7	1.1			.012	4.6	.16		90 <sup>e</sup>
SECONDARY CODE	02L				32L				CODE DE SECOURS

SUBM ID	09105L FLUORIDE DISSOLVED F MG/L	03301L LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	13305L ALUMINUM EXTRBLE. AL MG/L	23302L VANADIUM EXTRBLE. V MG/L	24101L CHROMIUM HEXA VALENT CR MG/L	24302L CHROMIUM EXTRBLE. CR MG/L	26302L IRON EXTRBLE. FE MG/L	ECHANTILLONS(IND.) MINIMUM MAXIMUM MOYENNE ECART-TYPE
SAMPLES(FLAGS)	23(7)	3(3)	3(0)	3(0)	3(2)	11(10)	19(9)	23(2)	
LOW	L.05	L.005	.02	.024	L.001	L.002	L.001	.08	
HIGH	.27	L.005	.03	.70	.004	1.05	.023	9.5	
AVERAGE	.09*		.03	.250	.0020*	.097*	.006*	1.435*	
STD.DEV.	.06*		.01	.390	.0017*	.316*	.007*	2.750*	
PERCNT:10TH	L.05					L.002	L.001	L.1	10 <sup>e</sup> PERCNT
25TH	L.05					L.002	L.002	.12	25 <sup>e</sup>
MEDIAN 50TH	.07	L.005	.03	.025	L.001	L.002	.003	.3	50 <sup>e</sup> MEDIANE
75TH	.14					L.002	.011	1.2	75 <sup>e</sup>
90TH	.15					L.002	L.015	5.29	90 <sup>e</sup>
SECONDARY CODE							04L	04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AT07FD0001** LAT. **55 D 55M 13 S** LONG. **118 D 36M 20 S**UTM **11 399650 E 6198150 N**  
JAN 24, 1973 TO/À OCT 17, 1978

## PEACE RIVER AT DUNVEGAN

	25006L MANGANESE TOTAL	25301L MANGANESE EXTRBLE	27004L COBALT TOTAL	27302L COBALT EXTRBLE.	28004L NICKEL TOTAL	28302L NICKEL EXTRBLE.	29008L COPPER TOTAL	29302L COPPER EXTRBLE	
SUBM ID	MN MG/L	MN MG/L	CO MG/L	CO MG/L	NI MG/L	NI MG/L	CU MG/L	CU MG/L	
<b>SAMPLES(FLAGS)</b>	5(0)	18(4)	5(1)	17(13)	5(1)	18(6)	5(1)	18(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.000	L.008	L.001	L.001	L.001	L.001	L.001	L.001	<b>MINIMUM</b>
<b>HIGH</b>	.250	.835	.027	.014	.021	.055	.007	.058	<b>MAXIMUM</b>
<b>AVERAGE</b>	.056	.102*	.007*	.003*	.009*	.010*	.005*	.012*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.109	.198*	.011*	.004*	.009*	.013*	.003*	.018*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		L.008		L.001		L.001		L.001	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.000	.012	.001	L.001	.002	L.002	.002	.001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.000	.034	.002	L.001	.007	.004	.007	.006	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.029	.085	.002	L.002	.016	.013	.007	.018	<b>75<sup>e</sup></b>
<b>90TH</b>		.320		.008		.024		.055	<b>90<sup>e</sup></b>
SECONDARY CODE	07L	04L	05L	03L	05L	03L	09L	05L	CODE DE SECOURS

	30305L ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	34102L SELENIUM DISSOLVED	38301L STRONTIUM EXTRBLE.	42301L MOLYBDENUM EXTRBLE.	47303L SILVER EXTRBLE	48302L CADMIUM EXTRBLE.	56301L BARIUM EXTRBLE.	
SUBM ID	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	BA MG/L	
<b>SAMPLES(FLAGS)</b>	15(2)	10(3)	3(3)	4(0)	3(3)	11(11)	18(15)	3(3)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.001	L.0002	L.0005	.10	L.10	L.001	L.001	L.0	<b>MINIMUM</b>
<b>HIGH</b>	.210	.014	L.0005	.25	L.10	L.004	.005	L.0	<b>MAXIMUM</b>
<b>AVERAGE</b>	.033*	.0032*		.17			.001*		<b>MOYENNE</b>
<b>STD.DEV.</b>	.059*	.0054*		.07			.001*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.001	.0002*				L.001	L.001		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.002	L.0005		.11		L.001	L.001		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.005	.0007	L.0005	.17	L.10	L.001	L.001	L.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.055	.0019		.24		L.001	L.001		<b>75<sup>e</sup></b>
<b>90TH</b>	L.100	.0134				L.001	.003		<b>90<sup>e</sup></b>
SECONDARY CODE							04L		CODE DE SECOURS

	80011L MERCURY TOTAL	82302L LEAD EXTRBLE.	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36102L STREP. FECAL	02001L ODOUR THRESHOLD NUMBER	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	
SUBM ID	HG MG/L	PB MG/L	MPN NO/100ML	MPN NO/100ML	MF NO/100ML	TON	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	10(9)	19(12)	40(10)	39(1)	13(7)	16(0)	32(1)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.0001	L.001	0.	0.	L2.	1.	1.		<b>MINIMUM</b>
<b>HIGH</b>	.0010	.019	140.	G1800.	4.	4.	4085.		<b>MAXIMUM</b>
<b>AVERAGE</b>	.0002*	.005*	17.*	147.*	2.*	2.	311.*		<b>MOYENNE</b>
<b>STD.DEV.</b>	.0003*	.004*	35.*	323.*	1.*	1.	747.*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.0001	L.001	0.	2.	L2.	1.	L10.		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.0001	L.003	1.*	6.	L2.	1.	23.		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.0001	L.003	2.*	26.	L2.	1.	58.		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.0001	.005	11.	79.	2.	2.	217.		<b>75<sup>e</sup></b>
<b>90TH</b>	.0005*	.010	64.	540.	4.	4.	744.		<b>90<sup>e</sup></b>
SECONDARY CODE		04L	12L	02L					CODE DE SECOURS

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MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB BASIN

STATION 00AT07GA0001 LAT. 54 D 51 M 0 S LONG. 119 D 11 M 0 S

UTM 11 359800E 6080100 N  
MAY 03 1971 TO/A SEP 06 1975

SMOKY RIVER - UPSTREAM OF MCINTYRE  
PORCUPINE MINES

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH. UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH. UNITS	
SUBM ID	USIE CM								
SAMPLES(FLAGS)	12(0)	8(3)	13(0)		13(1)	16(0)	15(0)		ECHANTILLONS(IND.)
LOW	190.	169.	82.		2.	7.8	59.		MINIMUM
HIGH	510.	405.	334.		46.	8.5	130.		MAXIMUM
AVERAGE	376.	249.*	186.0		13.9*		101.7		MOYENNE
STD.DEV.	119.	78.*	72.7		17.8*		22.1		ECART-TYPE
PERCNT:10TH	210.		101.		2.	7.9	66.		10 <sup>e</sup> PERCNT
25TH	273.	180.	132.		2.	8.0	86		25 <sup>e</sup>
MEDIAN 50TH	425.	247.	190.		4.	8.2	103.		50 <sup>e</sup> MEDIANE
75TH	480.	281.	228.		G15.	8.2	117.		75 <sup>e</sup>
90TH	500.		268.		45.	8.3	130.		90 <sup>e</sup>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	6(0)	14(1)	7(0)	12(0)	9(0)	9(0)	16(3)	16(0)	ECHANTILLONS(IND.)
LOW	.3	L1.	26.	6.	0.	63.	L1.	26.	MINIMUM
HIGH	1.	16.	96.	35.	8.	141.	9.	200.	MAXIMUM
AVERAGE	.7	4.0*	54.86	15.8	1.	112.	2.7*	91.8	MOYENNE
STD.DEV.	3	3.8*	23.15	8.0	3.	28.	2.3*	46.0	ECART-TYPE
PERCNT:10TH		1		8.			L1	37.	10 <sup>e</sup> PERCNT
25TH	.5	2	38.	10.0	0.	105.	1.0	60.5	25 <sup>e</sup>
MEDIAN 50TH	.8	3.5	60.	14.5	0.	119.	2.0	89.5	50 <sup>e</sup> MEDIANE
75TH	.9	5.	65	19.5	0.	134.	3.0	117.5	75 <sup>e</sup>
90TH		5.5		23.			6	152.	90 <sup>e</sup>
SECONDARY CODE			03L	03L				06L	CODE DE SECOURS

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SUBM ID									
SAMPLES(FLAGS)	13(4)	14(7)	12(0)	12(1)	10(1)	11(2)	4(0)	3(0)	ECHANTILLONS(IND.)
LOW	1.	L.01	0.	76.	350.	L5.	248.	198.	MINIMUM
HIGH	9.	.25	350.	G1800.	40000.	1090.	516.	380.	MAXIMUM
AVERAGE	2.*	.08*	39.	445.*	37215.*	135.*	345.	259.	MOYENNE
STD.DEV.	2.*	.08*	99.	601.*	73286.*	324.*	125.	105	ECART-TYPE
PERCNT:10TH	L1	L.02	0.	79.	1425.	6.			10 <sup>e</sup> PERCNT
25TH	L1	.02	2.	105.	3300.	L10.	251		25 <sup>e</sup>
MEDIAN 50TH	2.	L.05	8.	195.	5000.	22.	308.	200.	50 <sup>e</sup> MEDIANE
75TH	3	1	22.	390.	30000.	36	439		75 <sup>e</sup>
90TH	4	25	31.	1600.	46000.	237.			90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AT07GA0001 LAT. 54 D 51M 0 S LONG. 119 D 11M 0 S

UTM 11 359800E 6080100 N  
MAY 03, 1971 TO/À SEP 06, 1975SMOKY RIVER - UPSTREAM OF MCINTYRE  
PORCUPINE MINES

SUBM ID	07107L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15419L PHOSPHORUS TOTAL PHOSPHATE	15406L PHOSPHORUS TOTAL PHOSPHATE	08101L OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED F	ECHANTILLONS(IND.)
	N	N	N	N	P	P	O2	MG/L	
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	16(10)	9(8)	17(10)		12(3)	12(3)		9(1)	
LOW	L.1	L.1	L.1		L.1	L.1		L.05	MINIMUM
HIGH	L.5	.1	1.2		.8	.8		.30	MAXIMUM
AVERAGE	.131*	.100*	.329*		.358*	.358*		.14*	MOYENNE
STD.DEV.	.101*	.000*	.300*		.297*	.297*		.08*	ECART-TYPE
PERCNT:10TH	L.1		L.1		L.1	L.1			10 <sup>e</sup> PERCNT
25TH	L.100	L.1	L.2		.100*	.100*		.08	25 <sup>e</sup>
MEDIAN 50TH	L.100	L.1	L.2		.200	.200		.12	50 <sup>e</sup> MEDIANE
75TH	.100	L.1	.3		.650	.650		.18	75 <sup>e</sup>
90TH	.2		.9		.8	.8			90 <sup>e</sup>
SECONDARY CODE	06L	06L	55L		06L			07L	CODE DE SECOURS

SUBM ID	24003L CHROMIUM TOTAL CR	25006L MANGANESE TOTAL MN	26002L IRON TOTAL FE	26302L IRON EXTRBL. FE	27004L COBALT TOTAL CO	28004L NICKEL TOTAL NI	29008L COPPER TOTAL CU	30006L ZINC TOTAL ZN	ECHANTILLONS(IND.)
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	4(2)	3(0)	10(2)	5(1)	3(1)	3(1)	3(0)	2(0)	
LOW	L.001	.000	L.1	L.1	L.001	L.001	.003	.02	MINIMUM
HIGH	.003	.000	4.2	.2	.003	.009	.014	.050	MAXIMUM
AVERAGE	.002*	.000	.740*	.120*	.002*	.004*	.008	.035	MOYENNE
STD.DEV.	.001*	.000	1.298*	.045*	.001*	.004*	.006	.021	ECART-TYPE
PERCNT:10TH			L.100						10 <sup>e</sup> PERCNT
25TH	L.001		.1	.1					25 <sup>e</sup>
MEDIAN 50TH	.001*	.000	.200	.1	.002	.002	.006	.035	50 <sup>e</sup> MEDIANE
75TH	.003		.4	.1					75 <sup>e</sup>
90TH			2.900						90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

SUBM ID	33003L ARSENIC TOTAL AS	47003L SILVER TOTAL AG	48004L CADMIUM TOTAL CD	80002L MERCURY TOTAL HG	82005L LEAD TOTAL PB	08201L OXYGEN BIOCHEM. DEMAND-BOD O2	06531L PHENOLIC MATERIAL PHENOL	06551L TANNIN AND LIGNIN T&L	ECHANTILLONS(IND.)
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)		1(0)	4(3)	4(4)	4(3)	14(4)	13(4)	14(2)	
LOW		.002	L.001	.0001	L.001	.0	L.001	L.1	MINIMUM
HIGH		.002	.002	.0002	.002	1.4	.056	1.7	MAXIMUM
AVERAGE			.001*		.001*	.4*	.009*	.59*	MOYENNE
STD.DEV.			.001*		.001*	.5*	.015*	.43*	ECART-TYPE
PERCNT:10TH						L.1	L.001	L.1	10 <sup>e</sup> PERCNT
25TH			L.001	.00010	L.001	L.1	L.001	.4	25 <sup>e</sup>
MEDIAN 50TH			L.001	.00015	L.001	.2	.003	.50	50 <sup>e</sup> MEDIANE
75TH			.001*	.00020	.001*	.5	.006	.7	75 <sup>e</sup>
90TH						1.4	.022	1.1	90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L	32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AT07GA0002

MAY 03 1971 TO A SEP 06 1975

SMOKY RIVER DOWNSTREAM OF MCINTYRE  
PORCUPINE MINES

	32041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH-UNITS	
SUBM ID	USIF CM					PH-UNITS			
SAMPLES(FLAGS)	12(0)	8(3)	12(0)		12(2)	15(0)	14(0)		ECHANTILLONS(IND.)
LOW	200.	Q115.	82.		L0.	7.6	65.		MINIMUM
HIGH	520.	417.	329.		49.	8.7	135.		MAXIMUM
AVERAGE	377.	239.*	179.6		14.2*		102.1		MOYENNE
STD.DEV.	116.	96.*	77.9		18.3*		23.5		ECART-TYPE
PERCNT:10TH	210.		104.		1.	7.8	67.		10 <sup>e</sup> PERCNT
25TH	285.	165.	112.5		2.0	7.9	88.		25 <sup>e</sup>
MEDIAN 50TH	410.	232.	167.0		5.0	8.1	102.5		50 <sup>e</sup> MEDIANE
75TH	478.	292.	242.0		24.5	8.2	123.		75 <sup>e</sup>
90TH	500.		256.		47.	8.3	128.		90 <sup>e</sup>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS)	5(0)	13(2)	7(0)	12(0)	9(0)	9(0)	15(4)	15(0)	ECHANTILLONS(IND.)
LOW	.2	L1.	35.	6.	0.	82.	L1.	30.	MINIMUM
HIGH	1.0	7.	94.	30.	20.	150.	5.	210.	MAXIMUM
AVERAGE	.8	3.2*	53.86	15.7	2.	111.	2.3*	88.6	MOYENNE
STD.DEV.	.3	1.8*	21.52	7.9	7.	24.	1.3*	51.1	ECART-TYPE
PERCNT:10TH		L1.		9.			L1.	37.	10 <sup>e</sup> PERCNT
25TH	.7	2.	35.	9.5	0.	88.	L1.	43.	25 <sup>e</sup>
MEDIAN 50TH	.9	3.	52.	14.0	0.	112.	2.	80.	50 <sup>e</sup> MEDIANE
75TH	1.	4.	68.	20.5	0.	121.	3.	131.	75 <sup>e</sup>
90TH		5.		29.			5.	139.	90 <sup>e</sup>
SECONDARY CODE		02L	03L	03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SUBM ID									
SAMPLES(FLAGS)	13(3)	12(5)	13(0)	12(0)	10(1)	10(3)	3(0)	2(0)	ECHANTILLONS(IND.)
LOW	0.	L.01	2.	5.	1500.	L1.	270.	252.	MINIMUM
HIGH	6.	.4	350.	1600.	60000.	270.	414.	312.	MAXIMUM
AVERAGE	2.*	.14*	35.	309.	18680.*	49.*	333.	282.	MOYENNE
STD.DEV.	2.*	.13*	95.	479.	22930.*	90.*	74.	42.	ECART-TYPE
PERCNT:10TH	1.	L.05	2.	11.	2150.	1.*			10 <sup>e</sup> PERCNT
25TH	L1.	L.05	2.	20.	3000.	4.			25 <sup>e</sup>
MEDIAN 50TH	2.	.07	3.	150.	9150.	L10.	314.	282.	50 <sup>e</sup> MEDIANE
75TH	4.	.22	12.	280.	24500.	20.			75 <sup>e</sup>
90TH	4.	.34	28.	920.	60000.	211.			90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION 00AT07GA0002

MAY 03. 1971 TO/À SEP 06. 1975

SMOKY RIVER - DOWNSTREAM OF MCINTYRE  
PORCUPINE MINES

SUBM ID	07107L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15419L PHOSPHORUS TOTAL PHOSPHATE	15406L PHOSPHORUS TOTAL PHOSPHATE	08101L OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED	
	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	O2 MG/L	F MG/L	
SAMPLES(FLAGS)	15(9)	9(9)	16(10)		10(3)	10(3)		9(1)	ECHANTILLONS(IND.)
LOW	L.1	L.1	L.1		L.1	L.1		L.05	MINIMUM
HIGH	.7	L.1	1.3		2.3	2.3		.33	MAXIMUM
AVERAGE	.153*		.325*		.620*	.620*		.16*	MOYENNE
STD.DEV.	.155*		.307*		.670*	.670*		.08*	ECART-TYPE
PERCNT:10TH	L.1		L.2		L.100	L.100			10 <sup>e</sup> PERCNT
25TH	L.1	L.1	L.200		L.1	L.1		.10	25 <sup>e</sup>
MEDIAN 50TH	L.1	L.1	L.200		.550	.550		.15	50 <sup>e</sup> MEDIANE
75TH	.1	L.1	.300		.8	.8		.20	75 <sup>e</sup>
90TH	.2		.8		1.600	1.600			90 <sup>e</sup>
SECONDARY CODE	06L	06L	55L		06L			07L	CODE DE SECOURS

SUBM ID	24003L CHROMIUM TOTAL CR	25006L MANGANESE TOTAL MN	26002L IRON TOTAL FE	26302L IRON EXTRBL. FE	27004L COBALT TOTAL CO	28004L NICKEL TOTAL NI	29008L COPPER TOTAL CU	30006L ZINC TOTAL ZN	
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	5(3)	5(0)	12(4)	3(0)	5(5)	5(2)	4(1)	3(1)	ECHANTILLONS(IND.)
LOW	L.001	.000	L.1	.1	L.001	L.001	L.001	L.01	MINIMUM
HIGH	.095	.000	4.0	.2	L.001	.210	.004	.15	MAXIMUM
AVERAGE	.020*	.000	.650*	.133		.047*	.003*	.073*	MOYENNE
STD.DEV.	.042*	.000	1.108*	.058		.092*	.002*	.071*	ECART-TYPE
PERCNT:10TH			L.1						10 <sup>e</sup> PERCNT
25TH	L.001	.000	L.100		L.001	L.001	.001*		25 <sup>e</sup>
MEDIAN 50TH	L.001	.000	.250	.1	L.001	.003	.003	.06	50 <sup>e</sup> MEDIANE
75TH	.002	.000	.500		L.001	.018	.004		75 <sup>e</sup>
90TH			1.3						90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

SUBM ID	33003L ARSENIC TOTAL AS	47003L SILVER TOTAL AG	48004L CADMIUM TOTAL CD	80002L MERCURY TOTAL HG	82005L LEAD TOTAL PB	08201L OXYGEN BIOCHEM. DEMAND-BOD O2	06531L PHENOLIC MATERIAL PHENOL	06551L TANNIN AND LIGNIN T&L	
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)		1(0)	5(4)	4(4)	5(4)	13(3)	13(3)	13(2)	ECHANTILLONS(IND.)
LOW		.001	L.001	.0001	L.001	.0	.000	L.1	MINIMUM
HIGH		.001	.004	.0002	.009	1.2	.053	1.4	MAXIMUM
AVERAGE			.002*		.003*	.5*	.011*	.55*	MOYENNE
STD.DEV.			.001*		.004*	.4*	.018*	.37*	ECART-TYPE
PERCNT:10TH						.2	L.001	L.1	10 <sup>e</sup> PERCNT
25TH			L.001	.00010	L.001	.2	L.001	.4	25 <sup>e</sup>
MEDIAN 50TH			L.001	.00015	L.001	.4	.003	.5	50 <sup>e</sup> MEDIANE
75TH			L.001	.00020	L.001	L.1	.006	.68	75 <sup>e</sup>
90TH						L.1	.051	1.0	90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00AT07GE0001 LAT. 55 D 4 M 21 S LONG. 118 D 48 M 9 S

UTM 11 384900E 6104100N

FEB 16 1970 TO/A FEB 12 1976

WAPITI RIVER GROVEDALE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	06216L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	CAC03 MG/L	REL. UNITS	JTU	PH UNITS	CAC03 MG/L	PH UNITS	
SAMPLES(FLAGS)	16(0)	9(2)	16(0)		15(0)	19(0)	19(0)		ECHANTILLONS(IND.)
LOW	210.	134.	95.		1.	7.0	86.		MINIMUM
HIGH	425.	233.	203.		60.	8.4	186.		MAXIMUM
AVERAGE	324.	198.*	164.1		8.9		144.1		MOYENNE
STD.DEV.	69.	34.*	33.4		15.6		38.7		ECART-TYPE
PERCNT:10TH	250.		122.		1.	7.1	88.		10 <sup>e</sup> PERCNT
25TH	263.	169.	136.0		2.	7.5	99.		25 <sup>e</sup>
MEDIAN 50TH	333.	214.	178.0		3.	7.8	165.		50 <sup>e</sup> MEDIANE
75TH	383.	221.	185.5		8.	8.2	175.		75 <sup>e</sup>
90TH	420.		202.		27.	8.2	182.		90 <sup>e</sup>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED	11101L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17201L CHLORIDE DISSOLVED	16302L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	4(0)	16(0)	7(0)	16(0)	13(0)	13(0)	19(4)	19(1)	ECHANTILLONS(IND.)
LOW	.7	1.	33.	1.	0.	107.	.0	L10.	MINIMUM
HIGH	1.3	36.	68.	26.	6.	215.	10.	66.	MAXIMUM
AVERAGE	1.0	9.4	45.43	11.1	0.	164.	3.4*	39.4*	MOYENNE
STD.DEV.	.3	8.1	11.40	5.7	2.	44.	2.8*	15.6*	ECART-TYPE
PERCNT:10TH		2.		6.	0.	110	L1	17	10 <sup>e</sup> PERCNT
25TH	.9	4.0	37.	7.0	0.	121.	L1	26	25 <sup>e</sup>
MEDIAN 50TH	1.1	8.5	44.	11.0	0.	169.	2.	39.	50 <sup>e</sup> MEDIANE
75TH	1.2	11.0	48.	14.0	0.	201.	6	52	75 <sup>e</sup>
90TH		14.	17.	0.	210		7	66	90 <sup>e</sup>
SECONDARY CODE		02L	03L	03L					CODE DE SECOURS

	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHATES	36011L COLIFORMS FECAL	36001L COLIFORMS TOTAL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS	10401L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	10571L RESIDUE FIXED TOTAL	
SUBM ID	MG/L	LAS MG/L	MPN NO. DL	MPN NO. DL	NO. ML	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	12(6)	9(3)	18(0)	18(0)	10(1)	6(2)	7(0)	4(0)	ECHANTILLONS(IND.)
LOW	L1.	L.05	0.	0.	1.	L10.	194.	134.	MINIMUM
HIGH	4.	.50	27.	170.	10000.	368.	368.	316.	MAXIMUM
AVERAGE	2.*	.19*	4.	16.	97720.*	122.*	281.	200.	MOYENNE
STD.DEV.	1.*	.17*	7.	40.	55218.*	133.*	51.	80	ECART-TYPE
PERCNT:10TH	L1.		0.	0.	6.				10 <sup>e</sup> PERCNT
25TH	L1.	L.05	0.	0.	20.	L10.	270.	152	25 <sup>e</sup>
MEDIAN 50TH	1.*	.13	0.	1.	435.	93.	278.	175.	50 <sup>e</sup> MEDIANE
75TH	1.	.28	8.	22.	3250.	156.	302.	248	75 <sup>e</sup>
90TH	4.		13.	23.	85000.				90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB-BASIN

STATION **00AT07GE0001** LAT. **55 D 4 M 21 S** LONG. **118 D 48 M 9 S**

UTM **11 384900E 6104100 N**  
FEB 16, 1970 TO/A FEB 12, 1976

WAPITI RIVER - GROVEDALE

SUBM ID	07107L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15419L PHOSPHORUS TOTAL PHOSPHATE	15406L PHOSPHORUS TOTAL PHOSPHATE	08101L OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED F	ECHANTILLONS(IND.)
	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	O2 MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	18(15)	15(14)	19(11)	1(1)	10(3)	10(3)	18(0)	18(4)	<b>MINIMUM</b>
<b>LOW</b>	.0	L.1	.0	<b>Q.300</b>	<b>L.1</b>	<b>L.1</b>	9.0	L.05	<b>MINIMUM</b>
<b>HIGH</b>	.1	.2	1.5	<b>Q.300</b>	.6	.6	13.5	.27	<b>MAXIMUM</b>
<b>AVERAGE</b>	.094*	.107*	.332*		.230*	.230*	11.6	.12*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.024*	.026*	.387*		.183*	.183*	1.3	.06*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.1	L.1	.1		L.100	L.100	9.5	L.05	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.1	L.1	L.2		L.1	L.1	10.7	.07	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.100	L.1	L.2		.100	.100	11.7	.12	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.1	L.1	.2		.4	.4	12.4	.15	<b>75<sup>e</sup></b>
<b>90TH</b>	.1	L.1	1.3		.500	.500	13.3	.23	<b>90<sup>e</sup></b>
SECONDARY CODE	06L	06L	55L		06L			07L	CODE DE SECOURS

SUBM ID	24003L CHROMIUM TOTAL CR	25006L MANGANESE TOTAL MN	26002L IRON TOTAL FE	26302L IRON EXTRBL. FE	27004L COBALT TOTAL CO	28004L NICKEL TOTAL NI	29008L COPPER TOTAL CU	30006L ZINC TOTAL ZN	ECHANTILLONS(IND.)
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	5(1)	8(0)	9(2)	8(2)	8(6)	8(3)	8(0)	3(2)	<b>MINIMUM</b>
<b>LOW</b>	L.001	.000	L.1	L.1	L.001	L.001	.001	L.01	<b>MINIMUM</b>
<b>HIGH</b>	.009	.025	1.6	.6	.009	.025	.026	.01	<b>MAXIMUM</b>
<b>AVERAGE</b>	.004*	.006	.533*	.275*	.002*	.006*	.011	.010*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.003*	.009	.466*	.212*	.003*	.008*	.010	.000*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.002	.000	.2	.100*	L.001	L.001	.003		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.004	.000	.5	.200	L.001	.004	.008	L.01	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.004	.010	.7	.450	.001*	.007	.020		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

SUBM ID	33003L ARSENIC TOTAL AS	47003L SILVER TOTAL AG	48004L CADMIUM TOTAL CD	80002L MERCURY TOTAL HG	82005L LEAD TOTAL PB	08201L OXYGEN BIOCHEM. DEMAND-BOD O2	06531L PHENOLIC MATERIAL PHENOL	06551L TANNIN AND LIGNIN T&L	ECHANTILLONS(IND.)
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>		2(2)	8(5)	12(10)	8(2)	18(6)	11(2)	16(2)	<b>MINIMUM</b>
<b>LOW</b>		L.001	L.001	.0001	L.001	.1	L.001	L.1	<b>MINIMUM</b>
<b>HIGH</b>		L.001	.050	.0012	.010	2.8	.012	1.0	<b>MAXIMUM</b>
<b>AVERAGE</b>			.007*	.00030*	.005*	1.2*	.003*	.55*	<b>MOYENNE</b>
<b>STD.DEV.</b>			.017*	.00033*	.004*	.7*	.003*	.32*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				.0001		.1	L.001	L.1	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			L.001	.00010	.001*	L.1	.001	.30	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.001	L.001	.00015	.005	1.0	.002	.48	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			.002	.00045*	.009	1.1	.003	.90	<b>75<sup>e</sup></b>
<b>90TH</b>				.0005		2.5	.004	1.0	<b>90<sup>e</sup></b>
SECONDARY CODE			05L	03L	06L	02L	32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79

PEACE RIVER SUB-BASIN

STATION 00AT07GJ0001 LAT. 55 D 14 M 12 S LONG. 118 D 15 M 27 S

UTM 11 420100E 6121700N  
MAR 03 1971 TO/A NOV 13 1975

SMOKY RIVER AT GOODWIN

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL MAG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH. UNITS	10404L ALKALINITY TOTAL MAG/L	00215L SATURATION INDEX (CALCD.) PH. UNITS	
SAMPLES(FLAGS)	15(0)	9(0)	13(0)	.	12(1)	16(0)	16(0)		ECHANTILLONS(IND.)
LOW	190.	151.	117.		1.	6.7	80.		MINIMUM
HIGH	560.	295.	250.		18.	8.3	204.		MAXIMUM
AVERAGE	403.	233.	197.4		7.5*		152.3		MOYENNE
STD.DEV.	120.	50.	47.0		6.2*		36.7		ECART-TYPE
PERCNT:10TH	270.		129.		1.	7.2	105.		10 <sup>e</sup> PERCNT
25TH	300.	211.	168.		2.5	7.7	118.0		25 <sup>e</sup>
MEDIAN 50TH	400.	240.	222.		5.5	7.9	162.5		50 <sup>e</sup> MEDIANE
75TH	525.	270.	229.		14.0	8.1	178.0		75 <sup>e</sup>
90TH	550.		247.		G15.	8.2	198.		90 <sup>e</sup>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	4(0)	15(0)	7(0)	15(0)	11(0)	11(0)	16(0)	16(0)	ECHANTILLONS(IND.)
LOW	1.3	3.	37.	6.	0.	128.	.4	18.	MINIMUM
HIGH	12.	28.	75.	19.	0.	216.	29.	106.	MAXIMUM
AVERAGE	4.0	11.9	54.57	13.2	0.	177.	8.5	59.3	MOYENNE
STD.DEV.	5.3	7.4	13.43	3.9	0.	35.	7.8	23.7	ECART-TYPE
PERCNT:10TH		4.		8.	0.	130.	1.	35.	10 <sup>e</sup> PERCNT
25TH	1.3	5.	41.	10.	0.	144.	3.0	42.0	25 <sup>e</sup>
MEDIAN 50TH	1.5	10.	60.	13.	0.	185.	5.5	57.0	50 <sup>e</sup> MEDIANE
75TH	6.8	16.	62.	17.	0.	212.	13.5	76.5	75 <sup>e</sup>
90TH		24.		17.6	0.	216.	18.	91.	90 <sup>e</sup>
SECONDARY CODE		02L	03L	03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT DENS NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SAMPLES(FLAGS)	13(6)	8(3)	15(0)	15(3)	9(1)	7(2)	5(0)	2(0)	ECHANTILLONS(IND.)
LOW	L1.	.03	0.	2.	320.	L10.	230.	226.	MINIMUM
HIGH	4.	.18	46.	G2400.	00000.	272.	364.	262.	MAXIMUM
AVERAGE	2.*	.08*	10.	510.*	57208.*	103.*	317.	244.	MOYENNE
STD.DEV.	1.*	.05*	14.	889.*	96066.*	93.*	53.	25.	ECART-TYPE
PERCNT:10TH	L1.		0.	5.					10 <sup>e</sup> PERCNT
25TH	L1.	L.05	0.	7.	G3000.	L10.	314.		25 <sup>e</sup>
MEDIAN 50TH	1.	.07*	4.	81.	12000.	80.	324.	244.	50 <sup>e</sup> MEDIANE
75TH	2.	.11	13.	280.	65000.	158.	352.		75 <sup>e</sup>
90TH	3.		35.	G2400.					90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB-BASIN

STATION 00AT07GJ0001 LAT. 55 D 14 M 12 S LONG. 118 D 15 M 27 S

UTM 11 420100E 6121700 N  
MAR 03, 1971 TO/À NOV 13, 1975

SMOKY RIVER AT GOODWIN

SUBM ID	07107L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15419L PHOSPHORUS TOTAL PHOSPHATE	15406L PHOSPHORUS TOTAL PHOSPHATE	08101L OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED F	ECHANTILLONS(IND.) MINIMUM MAXIMUM MOYENNE ECART-TYPE
	N	N	N	N	P	P	O2	F	
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	16(14)	14(14)	16(10)		8(2)	8(2)	16(0)	16(0)	
LOW	.0	L.1	.1		.0	.0	9.0	.07	
HIGH	.1	L.1	1.2		.5	.5	13.4	.74	
AVERAGE	.094*		.269*		.250*	.250*	11.1	.19	
STD.DEV.	.025*		.252*		.193*	.193*	1.4	.16	
PERCNT:10TH	L.1	L.1	L.2				9.3	.07	10 <sup>e</sup> PERCNT
25TH	L.100	L.1	L.200		L.100	L.100	10.2	.12	25 <sup>e</sup>
MEDIAN 50TH	L.100	L.100	L.200		.250	.250	10.9	.15	50 <sup>e</sup> MEDIANE
75TH	L.100	L.1	.200		.400	.400	12.1	.19	75 <sup>e</sup>
90TH	L.1	L.1	.3				13.3	.28	90 <sup>e</sup>
SECONDARY CODE	06L	06L	55L		06L			07L	CODE DE SECOURS

SUBM ID	24003L CHROMIUM TOTAL CR	25006L MANGANESE TOTAL MN	26002L IRON TOTAL FE	26302L IRON EXTRBL. FE	27004L COBALT TOTAL CO	28004L NICKEL TOTAL NI	29008L COPPER TOTAL CU	30006L ZINC TOTAL ZN	ECHANTILLONS(IND.) MINIMUM MAXIMUM MOYENNE ECART-TYPE
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	5(2)	8(0)	7(2)	7(1)	8(6)	8(2)	8(1)	3(0)	
LOW	L.001	.000	L.1	L.1	L.001	L.001	L.001	.01	
HIGH	.010	.031	.6	1.8	.011	.010	.016	.14	
AVERAGE	.005*	.011	.271*	.414*	.003*	.005*	.006*	.053	
STD.DEV.	.004*	.015	.206*	.620*	.004*	.003*	.005*	.075	
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.001	.000	L.1	.1	L.001	.001*	.002		25 <sup>e</sup>
MEDIAN 50TH	.006	.000	.2	.2	L.001	.006	.004	.010	50 <sup>e</sup> MEDIANE
75TH	.009	.028	.5	.4	.003*	.007	.009		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

SUBM ID	33003L ARSENIC TOTAL AS	47003L SILVER TOTAL AG	48004L CADMIUM TOTAL CD	80002L MERCURY TOTAL HG	82005L LEAD TOTAL PB	08201L OXYGEN BIOCHEM. DEMAND-BOD O2	06531L PHENOLIC MATERIAL PHENOL	06551L TANNIN AND LIGNIN T&L	ECHANTILLONS(IND.) MINIMUM MAXIMUM MOYENNE ECART-TYPE
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)		2(2)	8(8)	11(7)	8(2)	16(3)	11(2)	15(0)	
LOW		L.001	L.001	.0001	L.001	.7	.000	.3	
HIGH		L.001	L.001	.0005	.007	8.8	.015	3.4	
AVERAGE				.00028*	.004*	2.2*	.004*	1.13	
STD.DEV.				.00017*	.002*	2.3*	.005*	.94	
PERCNT:10TH				.0001		L.10	L.001	.3	10 <sup>e</sup> PERCNT
25TH			L.001	.0001	.001*	1.0*	L.001	.4	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	.0002	.004	1.2	.002	.90	50 <sup>e</sup> MEDIANE
75TH			L.001	.0005	.006	2.3	.004	1.5	75 <sup>e</sup>
90TH				.0005		6.1	.009	2.6	90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L	32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00AT07GJ0002 LAT. 55 D 42 M 57 S LONG. 117 D 37 M 21 S

UTM 11 460900E 6174400N

JUN 24 1976 TO/A NOV 14 1978

SMOKY RIVER AT WATINO HWY49 BRIDGE

	02041L SPECIFIC CONDUCT	00203L TOTAL DISSOLVED SOLIDS (CALCD)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD)	
SUBM ID	USIE/CM	(CALCD) MG/L	CACO3 MG/L	REL. UNITS	JTU	PH-UNITS	CACO3 MG/L	PH-UNITS	
SAMPLES(FLAGS)	25(0)	8(0)	22(0)	13(0)	15(0)	25(0)	20(0)	8(0)	ECHANTILLONS(IND.)
LOW	180.	115.	89.	30.	2.0	7.6	86.	-.1	MINIMUM
HIGH	640.	203.	325.2	160.	130.	9.1	204.	.6	MAXIMUM
AVERAGE	332.	150.	173.3	68.	38.9		129.7		MOYENNE
STD.DEV.	128.	32	62.9	33.	39.9		35.8		ECART-TYPE
PERCNT:10TH	205		106.	50.	4.7	7.7	95.0		10 <sup>e</sup> PERCNT
25TH	235	122	125.	50.	8.	8.	110.0	.1	25 <sup>e</sup>
MEDIAN 50TH	290.	143.	156.5	60.	21.	8.1	117.5	.2	50 <sup>e</sup> MEDIANE
75TH	410	173	203.	70.	63.0	8.3	145.5	.5	75 <sup>e</sup>
90TH	534		252.3	100.	100.	8.3	193.5		90 <sup>e</sup>
SECONDARY CODE			04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K	11101L SODIUM DISSOLVED NA	20101L CALCIUM DISSOLVED CA	12102L MAGNESIUM DISSOLVED MG	06301L CARBONATE (CALCD.) CO3	06201L BICARBONAT (CALCD.) HCO3	17201L CHLORIDE DISSOLVED CL	16302L SULPHATE DISSOLVED SO4	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	25(0)	24(0)	13(0)	25(0)	20(0)	20(0)	25(3)	25(3)	ECHANTILLONS(IND.)
LOW	.1	3.7	30.3	6.5	0.	105.	L1.	L10.	MINIMUM
HIGH	4.2	27.	91.	27.5	5.	249.	20.	66.	MAXIMUM
AVERAGE	1.1	10.9	50.11	12.6	0.	157.	5.4*	32.5*	MOYENNE
STD.DEV.	1.0	7.1	19.08	5.2	2.	43.	5.4*	18.2*	ECART-TYPE
PERCNT:10TH	5	4	31.8	7.5	0.	116.	L1.	L10.	10 <sup>e</sup> PERCNT
25TH	6	5.8	35.2	9.	0.	130.	1.6	20.	25 <sup>e</sup>
MEDIAN 50TH	.8	7.2	43.9	11.5	0.	143.	3.6	23.	50 <sup>e</sup> MEDIANE
75TH	1.2	15.5	66.6	15.	0.	177.	7.	46.	75 <sup>e</sup>
90TH	1.6	22	71.7	18.1	2.	236.	15.	60.	90 <sup>e</sup>
SECONDARY CODE	01L 02L	02L 03L	03L				03L 06L	06L	CODE DE SECOURS

	15407L PHOSPHATE TOTAL	15419L PHOSPHORUS TOTAL	14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	06151L CARBON DISSOLVED INORGANIC	08101L OXYGEN DISSOLVED DO	
SUBM ID	P04 MG/L	P MG/L	SIO2 MG/L	C MG/L	C MG/L	C MG/L	C MG/L	O2 MG/L	
SAMPLES(FLAGS)			14(0)	18(1)	18(0)	12(0)	13(0)	11(0)	ECHANTILLONS(IND.)
LOW			2.6	L2.	17.	2.	4.	7.5	MINIMUM
HIGH			11.3	33.	55.	14.	49.	13.3	MAXIMUM
AVERAGE			4.79	13.6*	31.3	6.8	29.3	10.2	MOYENNE
STD.DEV.			2.24	8.3*	12.2	3.5	12.3	1.4	ECART-TYPE
PERCNT:10TH			3.1	5.	17.	3.	21.	9.3	10 <sup>e</sup> PERCNT
25TH			3.8	6.	22.	4.0	23.	9.5	25 <sup>e</sup>
MEDIAN 50TH			4.00	10.5	25.0	6.5	26.	9.9	50 <sup>e</sup> MEDIANE
75TH			4.8	19.	44.	9.0	39.	11.2	75 <sup>e</sup>
90TH			7.9	26.	49.	11.	46.	11.3	90 <sup>e</sup>
SECONDARY CODE			02L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AT07GJ0002 LAT. 55 D 42 M 57 S LONG. 117 D 37 M 21 S

UTM 11 460900E 6174400 N

JUN 24, 1976 TO/A NOV 14, 1978

SMOKY RIVER AT WATINO-HWY49 BRIDGE

SUBM ID	07003L NITROGEN TOTAL KJELDAHL	07107L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07503L NITROGEN TOTAL AMMONIA	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL PHOSPHATE	ECHANTILLONS(IND.)
	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	
SAMPLES(FLAGS)	17(0)	14(2)	2(2)	11(11)	12(6)	14(3)	21(7)	11(0)	MINIMUM
LOW	.1	L.002	L.1	L.1	L.05	.270	L.002	.01	MAXIMUM
HIGH	1.7	.225	L.1	L.1	.29	1.875	.056	.50	MOYENNE
AVERAGE	.6	.060*			.119*	.730*	.013*	.113	ECART-TYPE
STD.DEV.	.4	.072*			.082*	.425*	.015*	.146	
PERCNT:10TH	.2	.008		L.1	L.05	Q.322	L.003	.015	10 <sup>e</sup> PERCNT
25TH	.4	.012		L.1	L.050	.475	L.003	.019	25 <sup>e</sup>
MEDIAN 50TH	.5	.036	L.100	L.1	.070	.583	.007	.043	50 <sup>e</sup> MEDIANE
75TH	.7	.07		L.1	.195*	Q.820	.019	.16	75 <sup>e</sup>
90TH	1.1	.216		L.1	L.20	Q1.210	.026	.21	90 <sup>e</sup>
SECONDARY CODE		11L		06L	55L				CODE DE SECOURS

SUBM ID	08201L OXYGEN BIOCHEM. DEMAND-BOD	06551L TANNIN AND LIGNIN	06711L CHLORO - PHYLL A	06601L CYANIDE	06531L PHENOLIC MATERIAL	06521L OIL AND GREASE	10701L SURFACT. N-ALKYL SULPHNTS.	06500L HYDROCARBONS (ALKANES)	ECHANTILLONS(IND.)
	O2 MG/L	T&L MG/L	MG/L	CN MG/L	PHENOL MG/L	MG/L	LAS MG/L	MG/L	
SAMPLES(FLAGS)	10(7)	12(0)	1(0)		12(1)		12(5)	9(6)	MINIMUM
LOW	L1.0	.3	.002		L.001		L.05	L.001	MAXIMUM
HIGH	2.6	1.5	.002		.009		.17	.034	MOYENNE
AVERAGE	1.3*	.88			.004*		.08*	.008*	ECART-TYPE
STD.DEV.	.6*	.33			.002*		.05*	.012*	
PERCNT:10TH	L1.0	.4			.001		L.05		10 <sup>e</sup> PERCNT
25TH	L1.0	.70			.003		L.05	L.001	25 <sup>e</sup>
MEDIAN 50TH	L1.0	.90			.004		.07	L.001	50 <sup>e</sup> MEDIANE
75TH	1.7	1.05			.006		.12	.006	75 <sup>e</sup>
90TH	2.3	1.1			.007		.15		90 <sup>e</sup>
SECONDARY CODE	02L				32L				CODE DE SECOURS

SUBM ID	09105L FLUORIDE DISSOLVED	03301L LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13305L ALUMINUM EXTRBLE.	23302L VANADIUM EXTRBLE.	24101L CHROMIUM HEXAVALENT	24302L CHROMIUM EXTRBLE.	26302L IRON EXTRBLE.	ECHANTILLONS(IND.)
	F MG/L	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	CR MG/L	FE MG/L	
SAMPLES(FLAGS)	7(0)	4(0)	4(0)	4(0)	4(1)	12(10)	16(11)	16(0)	MINIMUM
LOW	.07	.005	.04	.050	L.001	L.002	L.001	.17	MAXIMUM
HIGH	.12	.009	.10	1.14	.004	.004	.030	4.9	MOYENNE
AVERAGE	.08	.007	.07	.538	.0023*	.002*	.007*	1.183	ECART-TYPE
STD.DEV.	.02	.002	.03	.505	.0015*	.001*	.008*	1.324	
PERCNT:10TH						L.002	L.001	.36	10 <sup>e</sup> PERCNT
25TH	.07	.006	.05	.125	.0010*	L.002	L.001	.435	25 <sup>e</sup>
MEDIAN 50TH	.08	.006	.07	.480	.0020	L.002	.003	.580	50 <sup>e</sup> MEDIANE
75TH	.08	.008	.09	.950	.0035	L.002	L.015	1.300	75 <sup>e</sup>
90TH						.003	L.015	3.6	90 <sup>e</sup>
SECONDARY CODE							04L	04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00AT07GJ0002 LAT. 55 D 42M 57 S LONG. 117 D 37M 21 S

UTM 11 460900E 6174400 N  
JUN 24 1976 TO/A OCT 16 1978

SMOKY RIVER AT WATINO-HWY49 BRIDGE

SUBM ID	25006L	25301L	27004L	27302L	28004L	28302L	29008L	29302L	
	MANGANESE	MANGANESE	COBALT	COBALT	NICKEL	NICKEL	COPPER	COPPER	
	TOTAL	EXTRBL	TOTAL	EXTRBL	TOTAL	EXTRBL	TOTAL	EXTRBL	
	MN	MN	CO	CO	NI	NI	CU	CU	
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)		16(0)		16(9)		16(4)		16(3)	ECHANTILLONS(IND.)
LOW		.010		L.001		L.001		L.001	MINIMUM
HIGH		.466		.009		.023		.072	MAXIMUM
AVERAGE		.076		.002*		.006*		.011*	MOYENNE
STD.DEV.		.110		.002*		.006*		.018*	ECART-TYPE
PERCNT:10TH		.011		L.001		L.001		L.001	10 <sup>e</sup> PERCNT
25TH		.018		L.001		.002*		.002	25 <sup>e</sup>
MEDIAN 50TH		.045		L.001		.004		.005	50 <sup>e</sup> MEDIANE
75TH		.075		.003		.008		.008	75 <sup>e</sup>
90TH		.120		.004		.013		.028	90 <sup>e</sup>
SECONDARY CODE		04L						05L	CODE DE SECOURS

SUBM ID	30305L	33104L	34102L	38301L	42301L	47303L	48302L	56301L	
	ZINC	ARSENIC	SELENIUM	STRONTIUM	MOLYBDENUM	SILVER	CADMIUM	BARIUM	
	EXTRBL	DISSOLVED	DISSOLVED	EXTRBL	EXTRBL	EXTRBL	EXTRBL	EXTRBL	
	ZN	AS	SE	SR	MO	AG	CD	BA	
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	15(4)	11(3)	4(4)	4(0)	4(4)	11(11)	16(14)	4(1)	ECHANTILLONS(IND.)
LOW	L.001	.0004	L.0005	.14	L.10	L.001	L.001	L.0	MINIMUM
HIGH	L.100	.0064	L.0005	.42	L.10	L.004	.006	.1	MAXIMUM
AVERAGE	.015*	.0014*		.29			.001*	.1*	MOYENNE
STD.DEV.	.027*	.0018*		.13			.001*	.0*	ECART-TYPE
PERCNT:10TH	L.001	L.0005				L.001	L.001		10 <sup>e</sup> PERCNT
25TH	.002	L.0005	L.0005	.18	L.10	L.001	L.001	.1*	25 <sup>e</sup>
MEDIAN 50TH	.003	.0005	L.0005	.30	L.10	L.001	L.001	.1	50 <sup>e</sup> MEDIANE
75TH	.022	.0013	L.0005	.40	L.10	L.001	L.001	.1	75 <sup>e</sup>
90TH	.047	.0030				L.001	.003		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

SUBM ID	80011L	82302L	36011L	36001L	36102L	02001L	10401L	10451L	
	MERCURY	LEAD	COLIFORMS	COLIFORMS	STREP.	ODOUR	RESIDUE	RESIDUE	
	TOTAL	EXTRBL	FECAL	TOTAL	FECAL	THRESHOLD NUMBER	NONFILTR.	FILTERABLE	
	HG	PB	MPN	MPN	MF	TON	MG/L	MG/L	
	MG/L	MG/L	NO/100ML	NO/100ML	NO/100ML				
SAMPLES(FLAGS)	10(10)	16(10)	24(4)	25(0)	13(2)		23(1)		ECHANTILLONS(IND.)
LOW	L.0001	L.003	L2.	11.	L2.		1.		MINIMUM
HIGH	L.0001	.016	G2400.	760.	106.		1564.		MAXIMUM
AVERAGE		.005*	157.*	211.	22.*		155.*		MOYENNE
STD.DEV.		.003*	486.*	206.	31.*		321.*		ECART-TYPE
PERCNT:10TH	L.0001	L.003	2.	23.	L2.		4.		10 <sup>e</sup> PERCNT
25TH	L.0001	L.003	8.	49.	2.		L10.		25 <sup>e</sup>
MEDIAN 50TH	L.0001	L.004	24.	180.	10.		70.		50 <sup>e</sup> MEDIANE
75TH	L.0001	.004	98.	290.	22.		182.		75 <sup>e</sup>
90TH	L.0001	.006	170.	520.	60.		264.		90 <sup>e</sup>
SECONDARY CODE			12L	02L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AT07HA0001** LAT. **56 D 13M 27 S** LONG. **117 D 18M 0 S**UTM **11 481400E 6230900 N**  
FEB 17, 1970 TO/A FEB 11, 1976

## PEACE RIVER ABOVE PEACE RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>15(0)</b>	<b>8(5)</b>	<b>14(0)</b>		<b>10(1)</b>	<b>17(0)</b>	<b>17(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>180.</b>	<b>Q95.</b>	<b>86.</b>		<b>1.</b>	<b>7.0</b>	<b>59.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>260.</b>	<b>Q181.</b>	<b>156.</b>		<b>G15.</b>	<b>8.6</b>	<b>125.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>209.</b>	<b>120.*</b>	<b>107.9</b>		<b>5.8*</b>		<b>88.6</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>27.</b>	<b>32.*</b>	<b>23.6</b>		<b>4.6*</b>		<b>15.8</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>180.</b>		<b>86.</b>		<b>1.5</b>	<b>7.5</b>	<b>67.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>185.</b>	<b>99.</b>	<b>90.</b>		<b>3.</b>	<b>7.9</b>	<b>81.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>200.</b>	<b>104.</b>	<b>100.5</b>		<b>4.0</b>	<b>8.0</b>	<b>86.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>236.</b>	<b>140.</b>	<b>115.</b>		<b>8.</b>	<b>8.1</b>	<b>96.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>255.</b>		<b>150.</b>		<b>13.5</b>	<b>8.2</b>	<b>115.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			05L 04L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>3(0)</b>	<b>15(1)</b>	<b>6(0)</b>	<b>15(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>17(10)</b>	<b>17(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.8</b>	<b>L1.</b>	<b>21.</b>	<b>3.0</b>	<b>0.</b>	<b>72.</b>	<b>.0</b>	<b>L10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.0</b>	<b>7.</b>	<b>32.</b>	<b>9.</b>	<b>0.</b>	<b>152.</b>	<b>7.</b>	<b>86.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.9</b>	<b>2.3*</b>	<b>27.33</b>	<b>6.3</b>	<b>0.</b>	<b>107.</b>	<b>1.7*</b>	<b>26.2*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.1</b>	<b>1.6*</b>	<b>4.08</b>	<b>1.7</b>	<b>0.</b>	<b>22.</b>	<b>1.6*</b>	<b>20.1*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>1.</b>		<b>4.9</b>	<b>0.</b>	<b>82.</b>	<b>L1.</b>	<b>10.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>1.</b>	<b>25.</b>	<b>5.</b>	<b>0.</b>	<b>99.</b>	<b>L1.</b>	<b>11.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.0</b>	<b>2.</b>	<b>28.00</b>	<b>6.</b>	<b>0.</b>	<b>104.</b>	<b>L1.</b>	<b>20.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>3.</b>	<b>30.</b>	<b>8.</b>	<b>0.</b>	<b>117.</b>	<b>2.</b>	<b>32.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>4.</b>		<b>9.</b>	<b>0.</b>	<b>140.</b>	<b>3.</b>	<b>48.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE		02L	03L	03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>14(6)</b>	<b>9(4)</b>	<b>14(0)</b>	<b>14(1)</b>	<b>7(0)</b>	<b>7(1)</b>	<b>5(0)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L1.</b>	<b>.04</b>	<b>0.</b>	<b>0.</b>	<b>30.</b>	<b>L10.</b>	<b>130.</b>	<b>60.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>6.</b>	<b>.38</b>	<b>23.</b>	<b>G1800.</b>	<b>99999.</b>	<b>408.</b>	<b>198.</b>	<b>108.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.*</b>	<b>.10*</b>	<b>4.</b>	<b>156.*</b>	<b>43814.</b>	<b>176.*</b>	<b>161.</b>	<b>91.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>2.*</b>	<b>.11*</b>	<b>7.</b>	<b>475.*</b>	<b>77542.</b>	<b>143.*</b>	<b>25.</b>	<b>27.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L1.</b>		<b>0.</b>	<b>0.</b>					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L1.</b>	<b>L.05</b>	<b>0.</b>	<b>5.</b>	<b>1020.</b>	<b>41.</b>	<b>148.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.</b>	<b>L.05</b>	<b>2.</b>	<b>14.</b>	<b>1250.</b>	<b>214.</b>	<b>160.</b>	<b>106.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.</b>	<b>.10</b>	<b>6.</b>	<b>49.</b>	<b>1700.</b>	<b>250.</b>	<b>168.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>5.</b>		<b>13.</b>	<b>170.</b>					<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00AT07HA0001 LAT 56 D 13 M 27 S LONG 117 D 18 M 0 S

UTM 11 481400 6230900  
FEB 17 1970 TO/A FEB 11 1976

## PEACE RIVER ABOVE PEACE RIVER

	07107L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07602L NITROGEN TOTAL CALCULATED N MG/L	15419L PHOSPHORUS TOTAL PHOSPHATE P MG/L	15406L PHOSPHORUS TOTAL PHOSPHATE P MG/L	08101L OXYGEN DISSOLVED DO O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	17(15)	14(14)	17(11)	1(1)	8(3)	8(3)	15(0)	17(8)	ECHANTILLONS(IND.)
LOW	.0	L.1	L.1	Q.600	L.1	L.1	9.2	L.05	MINIMUM
HIGH	.2	L.1	.6	Q.600	.7	.7	14.5	.34	MAXIMUM
AVERAGE	.100*		.247*		.300*	.300*	12.4	.11*	MOYENNE
STD.DEV.	.035*		.123*		.214*	.214*	1.7	.09*	ECART-TYPE
PERCNT:10TH	L.1	L.1	L.2				10.0	L.05	10 <sup>e</sup> PERCNT
25TH	L.1	L.1	L.2		L.100	L.100	10.6	L.05	25 <sup>e</sup>
MEDIAN 50TH	L.1	L.100	L.2		.300	.300	13.0	.07	50 <sup>e</sup> MEDIANE
75TH	L.1	L.1	.2		.400	.400	13.5	.12	75 <sup>e</sup>
90TH	L.1	L.1	.5				14.0	.30	90 <sup>e</sup>
SECONDARY CODE	06L	06L	55L		06L			07L	CODE DE SECOURS

	24003L CHROMIUM TOTAL CR MG/L	25006L MANGANESE TOTAL MN MG/L	26002L IRON TOTAL FE MG/L	26302L IRON EXTRBL. FE MG/L	27004L COBALT TOTAL CO MG/L	28004L NICKEL TOTAL NI MG/L	29008L COPPER TOTAL CU MG/L	30006L ZINC TOTAL ZN MG/L	
SAMPLES(FLAGS)	4(1)	6(0)	7(2)	8(2)	6(3)	6(2)	6(0)	3(2)	ECHANTILLONS(IND.)
LOW	L.001	.000	L.1	L.1	L.001	L.001	.002	L.01	MINIMUM
HIGH	.008	.014	.3	.9	.042	.034	.037	.02	MAXIMUM
AVERAGE	.005*	.003	.200*	.350*	.011*	.009*	.009	.013*	MOYENNE
STD.DEV.	.003*	.006	.100*	.312*	.017*	.013*	.014	.006*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.002*	.000	L.1	.100*	L.001	L.001	.002		25 <sup>e</sup>
MEDIAN 50TH	.005	.000	.2	.250	.001*	.005	.004	L.01	50 <sup>e</sup> MEDIANE
75TH	.007	.003	.3	.550	.021	.009	.005		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

	33003L ARSENIC TOTAL AS MG/L	47003L SILVER TOTAL AG MG/L	48004L CADMIUM TOTAL CD MG/L	80002L MERCURY TOTAL HG MG/L	82005L LEAD TOTAL PB MG/L	08201L OXYGEN BIOCHEM. DEMAND-BOD O2 MG/L	06531L PHENOLIC MATERIAL PHENOL MG/L	06551L TANNIN AND LIGNIN T&L MG/L	
SAMPLES(FLAGS)		1(1)	6(6)	11(10)	6(4)	16(7)	16(4)	15(5)	ECHANTILLONS(IND.)
LOW		L.001	L.001	.0001	L.001	.4	L.001	L.1	MINIMUM
HIGH		L.001	L.001	.0006	.006	2.6	.012	.9	MAXIMUM
AVERAGE				.00025*	.002*	1.1*	.004*	.37*	MOYENNE
STD.DEV.				.00019*	.002*	.5*	.003*	.29*	ECART-TYPE
PERCNT:10TH				.0001		.7	L.001	L.1	10 <sup>e</sup> PERCNT
25TH			L.001	.0001	L.001	.9*	.001*	L.1	25 <sup>e</sup>
MEDIAN 50TH			L.001	.0002	L.001	L.1.0	.002	.3	50 <sup>e</sup> MEDIANE
75TH			L.001	.0005	.002	1.3	.006	.6	75 <sup>e</sup>
90TH				.0005		1.8	.010	.9	90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L	32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00AT07HA0002** LAT. **56 D 13M 28 S** LONG. **117 D 17M 0 S**UTM **11 482450 E 6230900 N**  
JAN 24, 1973 TO/A FEB 11, 1976PEACE RIVER - ABOVE PEACE RIVER  
EAST BANK

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	14(0)	8(2)	12(0)		10(2)	15(0)	15(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>200.</b>	<b>Q148.</b>	<b>111.</b>		<b>1.</b>	<b>7.2</b>	<b>82.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>385.</b>	<b>210.</b>	<b>167.</b>		<b>23.</b>	<b>8.3</b>	<b>154.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>297.</b>	<b>179.*</b>	<b>138.8</b>		<b>10.3*</b>		<b>116.2</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	50.	24.*	15.4		7.0*		20.4		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	235.		121.		2.5	7.5	96.		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	270.	160.	131.0		4.	7.8	102.		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>299.</b>	<b>176.</b>	<b>139.5</b>		<b>9.0</b>	<b>7.9</b>	<b>112.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	310.	202.	143.5		G15.	8.1	137.		<b>75<sup>e</sup></b>
<b>90TH</b>	375.		161.		20.0	8.2	141.		<b>90<sup>e</sup></b>
SECONDARY CODE			04L 05L						CODE DE SECOURS

	19101L POTASSIUM DISSOLVED K MG/L	11101L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17201L CHLORIDE DISSOLVED CL MG/L	16302L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	3(0)	15(0)	6(0)	15(0)	13(0)	13(0)	15(2)	15(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.1</b>	<b>3.</b>	<b>31.</b>	<b>6.</b>	<b>0.</b>	<b>100.</b>	<b>L1.</b>	<b>17.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.5</b>	<b>16.</b>	<b>48.</b>	<b>17.</b>	<b>0.</b>	<b>188.</b>	<b>10.</b>	<b>67.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.3</b>	<b>9.0</b>	<b>40.33</b>	<b>9.5</b>	<b>0.</b>	<b>141.</b>	<b>4.8*</b>	<b>38.7</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	.2	4.5	5.85	2.7	0.	26.	2.5*	13.0	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		4.		7.	0.	117.	L1.	24.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		5.	37.	7.5	0.	124.	3.	30.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.4</b>	<b>8.</b>	<b>41.50</b>	<b>9.</b>	<b>0.</b>	<b>137.</b>	<b>5.</b>	<b>36.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		14.	43.	10.	0.	167.	6.	49.	<b>75<sup>e</sup></b>
<b>90TH</b>		15.		13.	0.	172.	8.	56.	<b>90<sup>e</sup></b>
SECONDARY CODE		02L	03L	03L			03L	06L	CODE DE SECOURS

	06521L OIL AND GREASE MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	36011L COLIFORMS FECAL MPN NO/DL	36001L COLIFORMS TOTAL MPN NO/DL	36900L STD. PLATE COUNT 20 DEG.C. BACT.DENS. NO/ML	10401L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	10571L RESIDUE FIXED TOTAL MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b>	14(5)	9(3)	14(0)	14(1)	6(0)	10(1)	3(0)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L1.</b>	<b>L.05</b>	<b>0.</b>	<b>0.</b>	<b>1470.</b>	<b>L10.</b>	<b>238.</b>	<b>640.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>4.</b>	<b>.16</b>	<b>33.</b>	<b>G2400.</b>	<b>60000.</b>	<b>1420.</b>	<b>780.</b>	<b>640.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>2.*</b>	<b>.08*</b>	<b>7.</b>	<b>321.*</b>	<b>24678.</b>	<b>278.*</b>	<b>426.</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	1.*	.04*	10.	730.*	26441.	451.*	307.		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L1.		0.	5.		15.*			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L1.	L.05	0.	13.	2100.	27.			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.</b>	<b>.05</b>	<b>2.</b>	<b>41.</b>	<b>14250.</b>	<b>52.</b>	<b>260.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	2.	.10	8.	70.	56000.	384.			<b>75<sup>e</sup></b>
<b>90TH</b>	4.		22.	1600.		1030.			<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00AT07HA0002 LAT. 56 D 13M 28 S LONG. 117 D 17M 0 S

UTM 11 482450E 6230900 N  
JAN 24 1973 TO/A FEB 11 1976PEACE RIVER - ABOVE PEACE RIVER  
EAST BANK

	07107L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07551L NITROGEN DISSOLVED AMMONIA	07602L NITROGEN TOTAL CALCULATED	15419L PHOSPHORUS TOTAL PHOSPHATE	15406L PHOSPHORUS TOTAL PHOSPHATE	08101L OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED F	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	O2 MG/L	F MG/L	
SAMPLES(FLAGS)	15(15)	14(14)	15(11)	1(1)	6(3)	6(3)	14(0)	15(4)	ECHANTILLONS(IND.)
LOW	L.1	L.1	L.1	Q.800	L.1	L.1	9.0	L.05	MINIMUM
HIGH	L.1	L.1	.4	Q.800	.8	.8	14.9	.28	MAXIMUM
AVERAGE			.220*		.367*	.367*	11.5	.12*	MOYENNE
STD.DEV.			.068*		.320*	.320*	1.7	.06*	ECART-TYPE
PERCNT:10TH	L.1	L.1	L.2				9.5	L.05	10 <sup>e</sup> PERCNT
25TH	L.1	L.1	L.2		L.1	L.1	9.9	.06	25 <sup>e</sup>
MEDIAN 50TH	L.1	L.100	L.2		.250*	.250*	11.8	.10	50 <sup>e</sup> MEDIANE
75TH	L.1	L.1	.2		.7	.7	12.7	.15	75 <sup>e</sup>
90TH	L.1	L.1	.3				13.6	.19	90 <sup>e</sup>
SECONDARY CODE		06L	55L		06L			07L	CODE DE SECOURS

	24003L CHROMIUM TOTAL	25006L MANGANESE TOTAL	26002L IRON TOTAL	26302L IRON EXTRBL.	27004L COBALT TOTAL	28004L NICKEL TOTAL	29008L COPPER TOTAL	30006L ZINC TOTAL	
SUBM ID	CR MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	
SAMPLES(FLAGS)	4(1)	6(0)	7(1)	8(1)	5(2)	6(1)	6(2)	3(1)	ECHANTILLONS(IND.)
LOW	L.001	.000	L.1	L.1	L.001	L.001	L.001	L.01	MINIMUM
HIGH	.008	.045	.5	1.4	.010	.024	.035	.03	MAXIMUM
AVERAGE	.005*	.008	.329*	.513*	.003*	.007*	.008*	.020*	MOYENNE
STD.DEV.	.003*	.018	.170*	.517*	.004*	.009*	.013*	.010*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.002*	.000	.1	.100	L.001	.002	L.001		25 <sup>e</sup>
MEDIAN 50TH	.005	.000	.4	.250	.001	.004	.004	.02	50 <sup>e</sup> MEDIANE
75TH	.007	.005	.5	.950	.002	.007	.004		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L	07L			05L	05L	09L		CODE DE SECOURS

	33003L ARSENIC TOTAL	47003L SILVER TOTAL	48004L CADMIUM TOTAL	80002L MERCURY TOTAL	82005L LEAD TOTAL	08201L OXYGEN BIOCHEM. DEMAND-BOD	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
SUBM ID	AS MG/L	AG MG/L	CD MG/L	HG MG/L	PB MG/L	O2 MG/L	PHENOL MG/L	T&L MG/L	
SAMPLES(FLAGS)		1(0)	6(6)	11(9)	6(4)	14(6)	14(3)	15(2)	ECHANTILLONS(IND.)
LOW		.002	L.001	.0001	L.001	.3	L.001	L.1	MINIMUM
HIGH		.002	L.001	.0018	.008	3.8	.012	1.6	MAXIMUM
AVERAGE				.00035*	.003*	1.6*	.004*	.73*	MOYENNE
STD.DEV.				.00050*	.003*	1.1*	.004*	.48*	ECART-TYPE
PERCNT:10TH				.0001		L.1.0	L.001	L.1	10 <sup>e</sup> PERCNT
25TH			L.001	.0001	L.001	L.1.0	.001	.3	25 <sup>e</sup>
MEDIAN 50TH			L.001	.0002	L.001	1.0*	.003	.68	50 <sup>e</sup> MEDIANE
75TH			L.001	.0005	.007	2.3	.006	1.0	75 <sup>e</sup>
90TH				.0005		3.6	.010	1.4	90 <sup>e</sup>
SECONDARY CODE			05L	03L	06L	02L	32L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-1979  
PEACE RIVER SUB-BASIN

STATION **00BC07EE0001** LAT. **55 D 8 M 0 S** LONG. **122 D 58 M 0 S** UTM **10 502200 E 6109400 N**  
AUG 25, 1966 TO/A AUG 20, 1969

PARSNIP RIVER AT HWY 97 BRIDGE,  
WINDY POINT, BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	0024	3(0)	3(1)	2(0)	3(1)	3(0)	3(0)	3(0)	3(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	78.	40.	38.6	L5.	.2	7.4	34.5	-1.3	<b>MINIMUM</b>
<b>HIGH</b>	0033	140.	Q69.	69.0	5.	34.0	7.6	64.4	Q-.7	<b>MAXIMUM</b>
<b>AVERAGE</b>		115.	57.*	53.8	5.*	11.6		53.1		<b>MOYENNE</b>
<b>STD.DEV.</b>		33.	15.*	21.5	0.*	19.4		16.3		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		127.	64.	53.8	5.	.5	7.5	60.5	-.9	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	0024	3(0)	3(0)	3(0)	1(0)	3(0)	3(0)	3(1)	3(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0033	.1	.5	12.4	3.5	0.	42.	L.1	3.1	<b>MINIMUM</b>
<b>HIGH</b>	0056	.3	.6	21.4	3.5	0.	79.	.2	4.5	<b>MAXIMUM</b>
<b>AVERAGE</b>		.2	.5	17.8		0.	65.	.1*	3.8	<b>MOYENNE</b>
<b>STD.DEV.</b>		.1	.1	4.8		0.	20.	.1*	.7	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.3	.5	19.6		0.	74.	.1	3.8	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE				02L						CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15257L PHOSPHORUS DISSOLVED ORTHO PO4	15314L PHOSPHORUS TOTAL INORG. PO4	15364L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	
<b>SAMPLES(FLAGS)</b>	0024	1(1)	3(2)	2(2)	2(2)	1(1)	1(0)	2(0)	3(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	L.5	L.005	L.1	L.002	L.002	.007	.007	2.2	<b>MINIMUM</b>
<b>HIGH</b>	0033	L.5	.034	L.1	L.002	L.002	.007	.013	2.6	<b>MAXIMUM</b>
<b>AVERAGE</b>			.015*					.010	2.4	<b>MOYENNE</b>
<b>STD.DEV.</b>			.017*					.004	.2	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			L.005	L.1	L.002			.010	2.4	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE			08L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00BC07EE0001 LAT. 55 D 8 M 0 S LONG. 122 D 58 M 0 S

UTM 10 502200E 6109400 N  
AUG 25 1966 TO/A AUG 20 1969PARSNIP RIVER AT HWY 97 BRIDGE  
WINDY POINT BRITISH COLUMBIA

		06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	03301P LITHIUM EXTRBLE.	13301P ALUMINUM EXTRBLE.	24052L CHROMIUM DISSOLVED	25101L MANGANESE DISSOLVED	25304L MANGANESE EXTRBLE.	26102L IRON DISSOLVED	
	SUBM ID	C MG/L	C MG/L	LI MG/L	AL MG/L	CR MG/L	MN MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	0024	1(0)	1(0)			1(1)	3(3)	1(1)	3(2)	ECHANTILLONS(IND.)
LOW	0056	5.0	6.0			L.004	L.010	L.01	L.001	MINIMUM
HIGH	0033	5.0	6.0			L.004	L.010	L.01	.060	MAXIMUM
AVERAGE									.021*	MOYENNE
STD.DEV.									.034*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH							L.010		L.001	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		28101L NICKEL DISSOLVED	29306L COPPER EXTRBLE.	30304L ZINC EXTRBL.	38101L STRONTIUM DISSOLVED	48101L CADMIUM DISSOLVED	81101L THALLIUM DISSOLVED	82301L LEAD EXTRBLE.	92101L URANIUM DISSOLVED	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	SR MG/L	CD MG/L	TL MG/L	PB MG/L	U MG/L	
SAMPLES(FLAGS)	0056	1(1)	2(2)	2(2)	1(1)	1(1)	1(1)	2(2)	1(0)	ECHANTILLONS(IND.)
LOW	0033	L.00	L.01	L.01	L.05	L.00	L.0	L.01	.0003	MINIMUM
HIGH		L.00	L.01	L.01	L.05	L.00	L.0	L.01	.0003	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH			L.01	L.01				L.01		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		10151L ALKALINITY PHENOL PTHALEIN	08301L OXYGEN TOTAL COD	09104L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
	SUBM ID	CACO3 MG/L	O2 MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0056	3(0)		3(3)	1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW	0024	.0		L.05	11.	68.	10.	58.	MINIMUM
HIGH	0033	.0		L.10	11.	68.	10.	58.	MAXIMUM
AVERAGE		.0							MOYENNE
STD.DEV.		.0							ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		.0		L.10					50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00BC07EF0001** LAT. **56 D 1M 39 S** LONG. **121 D 53M 57 S**UTM **10 568600E 6209500 N**

OCT 31, 1960 TO/À MAY 22, 1975

PEACE RIVER AT HWY 29 BRIDGE,  
HUDSON HOPE, BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0326	148.	76.	87.1	L5.	L.1	7.2	67.3	-1.0	MINIMUM
HIGH	0003	524.	306.	122.	40.	130.	8.4	255.	1.3	MAXIMUM
AVERAGE	0033	197.	105.	96.7	11.*	10.2*		91.8		MOYENNE
STD.DEV.	0024	64.	39.*	8.0	8.*	25.5*		31.6		ECART-TYPE
PERCNT:10TH		163.	82.	88.2	5.	.5	7.5	74.2	-.5	10 <sup>e</sup> PERCNT
25TH		175.	94.	92.9	5.	1.0	7.7	82.3	-.4	25 <sup>e</sup>
MEDIAN 50TH		185.	98.	95.3	10.	1.9	7.9	85.5	-.2	50 <sup>e</sup> MEDIANE
75TH		194.	101.	98.2	13.	5.0	8.0	89.9	-.1	75 <sup>e</sup>
90TH		231.	117.	104.	20.	24.0	8.1	96.0	.0	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0024	.2	.7	20.2	4.6	0.	82.	L.1	6.7	MINIMUM
HIGH	0033	1.3	8.3	74.1	24.1	4.	304.	5.6	44.2	MAXIMUM
AVERAGE	0003	.6	1.5	29.5	7.9	0.	112.	.6*	11.1	MOYENNE
STD.DEV.	0326	.2	1.4	8.9	5.5	1.	37.	.9*	6.4	ECART-TYPE
PERCNT:10TH		.4	.9	22.7	4.8	0.	90.	.2	8.4	10 <sup>e</sup> PERCNT
25TH		.5	1.1	26.8	5.3	0.	100.	.3	9.0	25 <sup>e</sup>
MEDIAN 50TH		.5	1.2	28.3	6.9	0.	104.	.4	9.5	50 <sup>e</sup> MEDIANE
75TH		.6	1.5	29.9	7.3	0.	110.	.6	10.8	75 <sup>e</sup>
90TH		.7	2.0	32.6	9.2	0.	117.	.8	12.8	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS
		01L	01L	02L				01L 03L	06L	

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07307L NITROGEN DISSOLVED NITRATE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001	.115	L.005	.0	.020	.19	L.003	.005	L.005	MINIMUM
HIGH	0003	L.5	.068	4.2	.2	.28	.007	.005	.059	MAXIMUM
AVERAGE	0033	.341*	.027*	.724	.086*	.23	.004*	.017*	.017*	MOYENNE
STD.DEV.	0024	.191*	.024*	1.269	.044*	.05	.002*		.015*	ECART-TYPE
PERCNT:10TH				.045	.021				L.005	10 <sup>e</sup> PERCNT
25TH		.183	L.005	.090	.041		.003*		L.005	25 <sup>e</sup>
MEDIAN 50TH		.375*	.022	.203	L.100	.22	.003		.013	50 <sup>e</sup> MEDIANE
75TH		L.500	.041	.655	.1		.005		.023	75 <sup>e</sup>
90TH				2.650	.1				.036	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS
		05L	06L 08L		57L 56L		57L		06L	

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB-BASIN

STATION 00BC07EF0001 LAT. 56 D 1M 39 S LONG. 121 D 53M 57 S

UTM 10 568600E 6209500N  
OCT 31 1960 TO/A MAY 22 1975PEACE RIVER AT HWY 29 BRIDGE  
HUDSON HOPE BRITISH COLUMBIA

		14101L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101S OXYGEN DISSOLVED DO	13101L ALUMINUM DISSOLVED	24303P CHROMIUM EXTRBL.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	SiO2 MG/L	C MG/L	O2 MG/L	AL MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS)	0001	15(1)	7(0)	4(0)	10(1)	1(0)	10(10)	17(14)	7(6)	ECHANTILLONS(IND.)
LOW	0024	L.02	3.0	12.0	L.01	.0002	L.010	L.01	L.001	MINIMUM
HIGH	0033	10.0	9.1	13.0	.08	.0002	L.010	.10	.001	MAXIMUM
AVERAGE	0003	4.96*	4.6	12.8	.04*			.02*	.001*	MOYENNE
STD.DEV.	0326	2.16*	2.1	.5	.03*			.02*	.000*	ECART-TYPE
PERCNT:10TH		3.6			.01*		L.010	L.01		10 <sup>e</sup> PERCNT
25TH		4.2	3.5	12.5	.02		L.010	L.01	L.001	25 <sup>e</sup>
MEDIAN 50TH		4.60	3.6	13.0	.05		L.010	L.01	L.001	50 <sup>e</sup> MEDIANE
75TH		5.90	4.8	13.0	.06		L.010	L.01	L.001	75 <sup>e</sup>
90TH		7.50			.08		L.010	.01		90 <sup>e</sup>
SECONDARY CODE		02L		02S				03L 04L		CODE DE SECOURS

		26101L IRON DISSOLVED	26301L IRON EXTRBL.	28302P NICKEL EXTRBL.	29106L COPPER DISSOLVED	29301L COPPER EXTRBL.	33103L ARSENIC DISSOLVED	33304L ARSENIC EXTRBL.	30305P ZINC EXTRBL.	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CO MG/L	AS MG/L	AS MG/L	ZN MG/L	
SAMPLES(FLAGS)	0326	13(3)	15(1)	7(6)	1(1)	16(12)	3(3)	3(0)	16(10)	ECHANTILLONS(IND.)
LOW	0003	L.01	.024	L.001	L.01	L.001	L.005	.0002	L.001	MINIMUM
HIGH	0001	.170	2.00	.001	L.01	.01	L.005	.0004	L.01	MAXIMUM
AVERAGE	0033	.049*	.320*	.001*		.006*		.0003	.006*	MOYENNE
STD.DEV.	0024	.047*	.558*	.000*		.004*		.0001	.004*	ECART-TYPE
PERCNT:10TH		L.01	.027			L.001			L.001	10 <sup>e</sup> PERCNT
25TH		.01	L.05	L.001		L.001			.001	25 <sup>e</sup>
MEDIAN 50TH		.03	.08	L.001		.007*	L.005	.0002	.008*	50 <sup>e</sup> MEDIANE
75TH		.08	.230	L.001		L.010			L.010	75 <sup>e</sup>
90TH		.08	1.20			.01			L.01	90 <sup>e</sup>
SECONDARY CODE		02L	04P 05P 02L			05P 06L			04L 01L	CODE DE SECOURS

		38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48302P CADMIUM EXTRBL.	56302P BARIUM EXTRBL.	82101L LEAD DISSOLVED	82302P LEAD EXTRBL.	80311P MERCURY EXTRBL.	
	SUBM ID	SR MG/L	MO MG/L	AG MG/L	CD MG/L	BA MG/L	PB MG/L	PB MG/L	HG MG/L	
SAMPLES(FLAGS)	0033	3(0)	7(2)	3(3)	7(7)	7(0)	1(1)	9(7)	4(4)	ECHANTILLONS(IND.)
LOW	0001	.09	L.0005	L.01	L.000	.1	L.05	L.001	L.05	MINIMUM
HIGH	0003	.11	L.05	L.01	L.001	.26	L.05	L.01	L.05	MAXIMUM
AVERAGE	0326	.10	.0078*			.18		.002*		MOYENNE
STD.DEV.		.01	.0186*			.07		.003*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.0005		L.000	1		L.001	L.05	25 <sup>e</sup>
MEDIAN 50TH		.10	.0008	L.01	L.001	.2		L.001	L.05	50 <sup>e</sup> MEDIANE
75TH			.0010		L.001	.25		.001	L.05	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			01P					01L		CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00BC07EF0001 LAT. 56 D 1 M 39 S LONG. 121 D 53 M 57 S

UTM 10 568600E 6209500 N  
APR 11, 1974 TO/A APR 11, 1974PEACE RIVER AT HWY 29 BRIDGE,  
HUDSON HOPE, BRITISH COLUMBIA

	18130L ALDRIN	18070L GAMMA- BHC (LINDANE)	18060L ALPHA- (CIS) CHLORDANE	18065L GAMMA- (TRANS) CHLORDANE	18150L HEOD (DIELDRIN)	18000L P,P-DDT	18010L P,P-TDE	18020L P,P-DDE	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0003	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	ECHANTILLONS(IND.)
LOW	L.005	L.005	L.005	L.005	L.005	L.005	L.005	L.005	MINIMUM
HIGH	L.005	L.005	L.005	L.005	L.005	L.005	L.005	L.005	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18050L ALPHA- ENDO- SULFAN	18055L BETA- ENDO- SULFAN	18140L ENDRIN	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	18030L P,P- METHOXY- CHLOR	18160L AROCOR 1254 (PCB'S)	18161L AROCOR 1248 (PCB'S)	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0003	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	ECHANTILLONS(IND.)
LOW	L.010	L.010	L.010	L.005	L.005	L.010	L.100	L.100	MINIMUM
HIGH	L.010	L.010	L.010	L.005	L.005	L.010	L.100	L.100	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18162L AROCOR 1260 (PCB'S)	05103L BORON DISSOLVED	08401L OXYGEN CONSUMED	09102L FLUORIDE DISSOLVED	10402L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10502L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	UG/L	B MG/L	O2 MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0003	1(1)	5(4)	12(1)	22(11)	7(0)	9(0)	7(0)	9(0)	ECHANTILLONS(IND.)
LOW 0326	L.100	L.00	L.5	.04	7.	101.	2.	1.	MINIMUM
HIGH 0001	L.100	.08	8.6	.21	360.	236.	339.	89.	MAXIMUM
AVERAGE 0024		.02*	3.4*	.09*	76.	141.	65.	35.	MOYENNE
STD.DEV. 0033		.03*	2.7*	.04*	127.	43.	122.	30.	ECART-TYPE
PERCNT:10TH			.9	.05					10 <sup>e</sup> PERCNT
25TH		L.00	1.2	L.05	12.	113.	5.	14.	25 <sup>e</sup>
MEDIAN 50TH		L.00	2.3	L.10	28.	119.	15.	25.	50 <sup>e</sup> MEDIANE
75TH		L.01	5.3	L.10	66.	160.	59.	54.	75 <sup>e</sup>
90TH			6.6	.11					90 <sup>e</sup>
SECONDARY CODE		01L		06L 05L 04L	01L		21.		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00BC07FA0003 LAT. 56 D 9 M 42 S LONG. 120 D 45 M 9 S

UTM 10 639600E 6226200 N  
SEP 10 1975 TO/A SEP 21 1976PEACE RIVER NEAR TAYLOR  
RAILWAY BRIDGE

	02041L SPECIFIC CONDUCT.	02031L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL CaCO3	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CaCO3	06210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L				MG/L	PH UNITS	
SAMPLES(FLAGS) 0326	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	ECHANTILLONS(IND.)
LOW	169.	88.	84.8	5.	.6	7.7	76.0	-.4	MINIMUM
HIGH	195.	108.	103.	50.	120.	8.2	91.4	.2	MAXIMUM
AVERAGE	178.	96.	90.9	13.	22.2		81.7		MOYENNE
STD.DEV.	7.	5.	4.6	14.	35.8		3.8		ECART-TYPE
PERCNT:10TH	173.	91.	87.7	5.	1.3	7.8	78.9	-.4	10 <sup>e</sup> PERCNT
25TH	174.	94.	88.6	5.	3.3	8.0	79.8	-.2	25 <sup>e</sup>
MEDIAN 50TH	176.	95.	89.4	5.	3.9	8.0	81.3	-.1	50 <sup>e</sup> MEDIANE
75TH	181.	97.	92.8	15.	33.5	8.1	82.4	-.1	75 <sup>e</sup>
90TH	184.	99.	94.0	30.	54.	8.1	85.5	-.1	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONAT. (CALCD.)	17206L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS) 0326	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	ECHANTILLONS(IND.)
LOW	.5	1.2	21.0	2.0	0.	93.	.5	8.9	MINIMUM
HIGH	.8	1.6	32.3	8.8	0.	111.	.9	13.0	MAXIMUM
AVERAGE	.6	1.4	27.0	5.7	0.	100.	.7	11.3	MOYENNE
STD.DEV.	.1	.1	3.3	1.8	0.	5.	.1	1.5	ECART-TYPE
PERCNT:10TH	.5	1.3	23.1	4.7	0.	96.	.6	9.0	10 <sup>e</sup> PERCNT
25TH	.5	1.3	24.7	4.9	0.	97.	.6	10.4	25 <sup>e</sup>
MEDIAN 50TH	.5	1.3	27.6	5.4	0.	99.	.6	11.3	50 <sup>e</sup> MEDIANE
75TH	.7	1.5	28.9	6.9	0.	100.	.7	12.7	75 <sup>e</sup>
90TH	.7	1.5	31.0	7.8	0.	104.	.8	12.8	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2	07557L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15102L PHOSPHORUS TOTAL DISSOLVED	15406L PHOSPHORUS TOTAL	14105L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	
SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	MG/L	
SAMPLES(FLAGS) 0326	30(0)	30(0)	30(0)	6(0)	30(0)	12(0)	30(0)	30(0)	ECHANTILLONS(IND.)
LOW	.014	.004	.12	.005	.010	3.5	2.0	17.5	MINIMUM
HIGH	.082	.027	.27	1.171	.234	4.3	8.7	24.0	MAXIMUM
AVERAGE	.038	.013	.17	.201	.056	3.9	4.3	20.6	MOYENNE
STD.DEV.	.016	.005	.03	.475	.059	.3	1.5	1.5	ECART-TYPE
PERCNT:10TH	.017	.007	.13		.017	3.5	2.7	18.5	10 <sup>e</sup> PERCNT
25TH	.020	.009	.16	.006	.025	3.5	3.2	19.5	25 <sup>e</sup>
MEDIAN 50TH	.040	.012	.17	.008	.033	4.0	4.1	20.7	50 <sup>e</sup> MEDIANE
75TH	.046	.016	.19	.010	.041	4.2	5.0	21.5	75 <sup>e</sup>
90TH	.053	.021	.22		.144	4.3	5.8	22.5	90 <sup>e</sup>
SECONDARY CODE	10R	57R	51R		06R		01R	05R	CODE DE SECOURS



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00BC07FA0003 LAT. 56 D 9 M 42 S LONG. 120 D 45 M 9 S

UTM 10 639600 E 6226200 N  
SEP 10, 1975 TO/A SEP 21, 1976PEACE RIVER NEAR TAYLOR.  
RAILWAY BRIDGE.

	03301P LITHIUM EXTRBLE.	13101P ALUMINUM DISSOLVED	25304P MANGANESE EXTRBLE.	26105R IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	
SUBM	LI	AL	MN	FE	FE	CO	NI	CU	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0326		8(5)	2(0)	30(0)	8(7)	8(5)	8(2)	ECHANTILLONS(IND.)
LOW			L.01	.009	.049	L.001	L.001	L.001	MINIMUM
HIGH			.04	.009	.650	.001	.003	.003	MAXIMUM
AVERAGE			.01*	.009	.250	.001*	.001*	.002*	MOYENNE
STD.DEV.			.01*	.000	.163	.000*	.001*	.001*	ECART-TYPE
PERCNT:10TH					.088				10 <sup>e</sup> PERCNT
25TH			L.01		.139	L.001	L.001	.001*	25 <sup>e</sup>
MEDIAN 50TH			L.01	.009	.226	L.001	L.001	.003	50 <sup>e</sup> MEDIANE
75TH			.02		.257	L.001	.001	.003	75 <sup>e</sup>
90TH					.555				90 <sup>e</sup>
SECONDARY CODE					05R				CODE DE SECOURS

	30305P ZINC EXTRBLE.	33304P ARSENIC EXTRBLE.	34302L SELENIUM EXTRBLE.	38301P STRONTIUM EXTRBLE.	48302P CADMIUM EXTRBLE.	56302P BARIUM EXTRBLE.	82103R LEAD DISSOLVED	82302P LEAD EXTRBLE.	
SUBM	ZN	AS	SE	SR	CD	BA	PB	PB	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0326		7(0)		8(7)	6(0)	2(0)	8(3)	ECHANTILLONS(IND.)
LOW	L.001		.0001		L.000	.11	.014	L.001	MINIMUM
HIGH	.005		.0047		.000	.20	.015	.002	MAXIMUM
AVERAGE	.002*		.0008		.000*	.14	.015	.001*	MOYENNE
STD.DEV.	.002*		.0017		.000*	.03	.000	.000*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.001		.0002		L.000	.11		L.001	25 <sup>e</sup>
MEDIAN 50TH	.002		.0002		L.000	.14	.015	.001	50 <sup>e</sup> MEDIANE
75TH	.004		.0003		L.000	.16		.001	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	80311P MERCURY EXTRBLE.	10151L ALKALINITY PHENOL PHTHALEIN	08301L OXYGEN TOTAL COD	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM	HG	CAC03	O2	F	MG/L	MG/L	MG/L	MG/L	
ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0326			12(0)	12(0)	12(0)	12(1)	12(0)	ECHANTILLONS(IND.)
LOW	L.05	.0		.0	1.	60.	L.1.	32.	MINIMUM
HIGH	L.05	.0		.1	103.	228.	94.	132.	MAXIMUM
AVERAGE		.0		.1	24.	137.	21.*	79.	MOYENNE
STD.DEV.		.0		.0	28.	44.	25.*	30.	ECART-TYPE
PERCNT:10TH		.0		.0	6.	86.	4.	44.	10 <sup>e</sup> PERCNT
25TH	L.05	.0		.0	9.	111.	9.	60.	25 <sup>e</sup>
MEDIAN 50TH	L.05	.0		.1	14.	139.	13.	77.	50 <sup>e</sup> MEDIANE
75TH	L.05	.0		.1	25.	158.	24.	94.	75 <sup>e</sup>
90TH		.0		.1	48.	170.	40.	128.	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00BC07FB0001 LAT 56 D 8 M 12 S LONG 120 D 42 M 42 S

UTM 10 642200 6223500  
SEP 10 1975 TO/A SEP 21 1976PINE RIVER NEAR MOUTH  
3.2 KM SOUTH OF TAYLOR

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH. UNITS	ALKALINITY TOTAL CACO3 MG/L	SATURATION INDEX (CALCD.) PH. UNITS	
SAMPLES(FLAGS)	0326	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	ECHANTILLONS(IND.)
LOW	185.	102.	97.5	5.	4.2	7.6	86.7	-1	MINIMUM
HIGH	341.	193.	180.	80.	160.	8.3	160.	.4	MAXIMUM
AVERAGE	242.	133.	126.3	25.	53.6		114.9		MOYENNE
STD.DEV.	53.	31.	26.7	26.	60.9		23.8		ECART-TYPE
PERCNT:10TH	186.	105.	101.	5.	5.7	7.8	91.5	0	10 <sup>e</sup> PERCNT
25TH	197.	107.	104.0	5.	8.3	8.0	93.1	0	25 <sup>e</sup>
MEDIAN 50TH	236.	130.	122.5	15.	21.0	8.0	115.0	.1	50 <sup>e</sup> MEDIANE
75TH	254.	138.	132.5	35.	111.5	8.2	121.0	3	75 <sup>e</sup>
90TH	340.	193.	174.	70.	150.	8.2	157	4	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBON. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0326	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	12(0)	ECHANTILLONS(IND.)
LOW	.4	1.3	22.5	1.2	0.	106.	.6	7.7	MINIMUM
HIGH	1.9	4.7	56.6	14.8	0.	195.	1.9	27.0	MAXIMUM
AVERAGE	.8	2.3	37.7	7.8	0.	140.	1.1	14.8	MOYENNE
STD.DEV.	.4	1.1	9.8	3.2	0.	29.	.4	6.0	ECART-TYPE
PERCNT:10TH	.5	1.4	29.0	5.6	0.	112.	.8	8.6	10 <sup>e</sup> PERCNT
25TH	.5	1.5	31.1	6.1	0.	114.	.8	10.8	25 <sup>e</sup>
MEDIAN 50TH	.7	2.1	36.9	8.0	0.	140.	.9	13.7	50 <sup>e</sup> MEDIANE
75TH	1.0	2.3	39.8	8.6	0.	147.	1.3	16.0	75 <sup>e</sup>
90TH	1.0	4.5	54.6	10.6	0.	191.	1.8	25.0	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07557L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15102L PHOSPHORUS TOTAL DISSOLVED P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14105L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	36051L CARBON TOTAL INORGANIC C MG/L	
SAMPLES(FLAGS)	0326	12(0)	12(0)	12(0)	12(0)	12(0)	11(1)	11(0)	ECHANTILLONS(IND.)
LOW	.006	.008	.08	.005	.019	2.4	1.0	20.0	MINIMUM
HIGH	.103	.034	.35	.044	1.41	3.7	22.0	38.2	MAXIMUM
AVERAGE	.046	.019	.17	.013	.267	3.0	6.8	28.8	MOYENNE
STD.DEV.	.037	.007	.08	.015	.431	.6	6.4	5.9	ECART-TYPE
PERCNT:10TH	.007	.009	.10		.021	2.4	1.3	21.5	10 <sup>e</sup> PERCNT
25TH	.008	.015	.11	.005	.026	2.5	2.0	24.0	25 <sup>e</sup>
MEDIAN 50TH	.042	.018	.17	.008	.040	3.0	5.1	28.9	50 <sup>e</sup> MEDIANE
75TH	.082	.023	.21	.01	.431	3.6	11.1	32.2	75 <sup>e</sup>
90TH	.092	.026	.27		.681	3.7	13.5	37.9	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00BC07FB0001 LAT. 56 D 8 M 12 S LONG. 120 D 42 M 42 S

UTM 10 642200 E 6223500 N  
SEP 10, 1975 TO/A SEP 21, 1976PINE RIVER NEAR MOUTH.  
3.2 KM. SOUTH OF TAYLOR.

SUBM ID	03301P LITHIUM EXTRBLE.	13101P ALUMINUM DISSOLVED	25304P MANGANESE EXTRBLE.	26105R IRON DISSOLVED	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	ECHANTILLONS(IND.)
	LI MG/L	AL MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS) 0326			8(1)		12(0)	8(3)	8(2)	8(0)	
LOW			L.01		.22	L.001	L.001	.001	MINIMUM
HIGH			.31		2.8	.006	.01	.013	MAXIMUM
AVERAGE			.09*		.831	.002*	.004*	.005	MOYENNE
STD.DEV.			.11*		.873	.002*	.004*	.005	ECART-TYPE
PERCNT:10TH					.235				10 <sup>e</sup> PERCNT
25TH			.01		.257	L.001	.001*	.001	25 <sup>e</sup>
MEDIAN 50TH			.04		.314	.002	.003	.003	50 <sup>e</sup> MEDIANE
75TH			.17		1.515	.004	.007	.009	75 <sup>e</sup>
90TH					1.85				90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

SUBM ID	30305P ZINC EXTRBLE.	33304P ARSENIC EXTRBLE.	34302L SELENIUM EXTRBLE.	38301P STRONTIUM EXTRBLE.	48302P CADMIUM EXTRBLE.	56302P BARIUM EXTRBLE.	82103R LEAD DISSOLVED	82302P LEAD EXTRBLE.	ECHANTILLONS(IND.)
	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	CD MG/L	BA MG/L	PB MG/L	PB MG/L	
SAMPLES(FLAGS) 0326	8(1)		7(0)		8(5)	6(0)		8(2)	
LOW	L.001		.0002		L.000	.22		L.001	MINIMUM
HIGH	.03		.0009		.001	.38		.008	MAXIMUM
AVERAGE	.009*		.0005		.000*	.27		.002*	MOYENNE
STD.DEV.	.011*		.0003		.000*	.06		.003*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.001		.0003		L.000	.24		.001*	25 <sup>e</sup>
MEDIAN 50TH	.004		.0003		L.000	.25		.001	50 <sup>e</sup> MEDIANE
75TH	.016		.0008		.000	.29		.003	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04P								CODE DE SECOURS

SUBM ID	80311P MERCURY EXTRBLE.	10151L ALKALINITY PHENOL PHTHALEIN	08301L OXYGEN TOTAL COD	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	ECHANTILLONS(IND.)
	HG UG/L	CAC03 MG/L	O2 MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0326	6(6)	12(0)		12(0)	12(0)	12(0)	12(0)	12(0)	
LOW	L.05	.0		.1	4.	122.	3.	56.	MINIMUM
HIGH	L.05	.0		.2	643.	242.	613.	180.	MAXIMUM
AVERAGE		.0		.1	130.	172.	121.	110.	MOYENNE
STD.DEV.		.0		.0	198.	39.	188.	40.	ECART-TYPE
PERCNT:10TH		.0		.1	8.	136.	7.	66.	10 <sup>e</sup> PERCNT
25TH	L.05	.0		.1	14.	143.	13.	75.	25 <sup>e</sup>
MEDIAN 50TH	L.05	.0		.1	24.	161.	21.	106.	50 <sup>e</sup> MEDIANE
75TH	L.05	.0		.1	217.	200.	200.	136.	75 <sup>e</sup>
90TH		.0		.1	342.	238.	314.	168.	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

PEACE RIVER SUB-BASIN

STATION 00BC07FB0004 LAT. 55 D 48 M 0 S LONG. 121 D 52 M 0 S

UTM 10 571000E 6184200N  
AUG 26 1966 TO/A AUG 20 1969

MOBERLY RIVER AT HWY 29 BRIDGE AT  
OUTLET OF MOBERLY LAKE

	02041L SPECIFIC CONDUCT.	02020L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0024	3(0)	3(0)	2(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW	0033	152.	85.	85.7	5.	.2	7.7	80.1	MINIMUM
HIGH	0056	169.	89.	88.2	30.	4.7	8.2	82.3	MAXIMUM
AVERAGE		160.	87.	86.9	17.	2.1	80.9		MOYENNE
STD.DEV.		9.	2.	1.8	13.	2.3	1.2		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		160.	87.	86.9	15.	1.5	8.1	80.2	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0056	3(0)	3(0)	3(0)	1(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW	0024	.4	1.3	23.6	2.6	0.	98.	.2	4.2	MINIMUM
HIGH	0033	.6	1.7	29.3	2.6	0.	100.	.5	6.5	MAXIMUM
AVERAGE		.5	1.5	25.9		0.	99.	.3	5.0	MOYENNE
STD.DEV.		.1	.2	3.0		0.	2.	.2	1.3	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		.6	1.4	24.8		0.	98.	.3	4.4	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				02L						CODE DE SECOURS

		07001L	07105L	07551L	15257L	15314L	15364L	15413L	14102L	
		NITROGEN	NITROGEN	NITROGEN	PHOSPHORUS	PHOSPHORUS	PHOSPHORUS	PHOSPHORUS	SILICA	
		TOTAL	DISSOLVED	DISSOLVED	DISSOLVED	TOTAL	DISSOLVED	TOTAL	REACTIVE	
		KJELDAHL	NO3 & NO2	AMMONIA	ORTHO PO4	INORG. PO4	INORG. PO4			
	SUBM	N	N	N	P	P	P	P	SiO2	
	ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0024	1(1)	3(3)	2(1)	2(2)	1(0)	1(0)	2(0)	3(0)	ECHANTILLONS(IND.)
LOW	0033	L.5	L.005	L.1	L.002	.007	.010	.007	2.4	MINIMUM
HIGH	0056	L.5	L.005	.5	L.002	.007	.010	.010	3.1	MAXIMUM
AVERAGE				.3*				.009	2.8	MOYENNE
STD.DEV.				.3*				.002	.4	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH			L.005	.3*	L.002			.009	2.9	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			08L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00BC07FB0004** LAT. **55 D 48 M 0 S** LONG. **121 D 52 M 0 S**UTM **10 571000E 6184200 N**  
AUG 26, 1966 TO/A AUG 20, 1969MOBERLY RIVER AT HWY 29 BRIDGE AT  
OUTLET OF MOBERLY LAKE,

		06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	03301P LITHIUM EXTRBL.	13301P ALUMINUM EXTRBL.	24052L CHROMIUM DISSOLVED	25101L MANGANESE DISSOLVED	25304L MANGANESE EXTRBL.	26102L IRON DISSOLVED	
	SUBM ID	C MG/L	C MG/L	LI MG/L	AL MG/L	CR MG/L	MN MG/L	MN MG/L	FE MG/L	
SAMPLES(FLAGS)	0056	1(0)	1(0)			1(1)	3(3)	1(1)	3(2)	ECHANTILLONS(IND.)
LOW	0024	7.0	14.0			L.004	L.010	L.01	L.001	MINIMUM
HIGH	0033	7.0	14.0			L.004	L.010	L.01	.050	MAXIMUM
AVERAGE									.017*	MOYENNE
STD.DEV.									.028*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH							L.010		L.001	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		28101L NICKEL DISSOLVED	29306L COPPER EXTRBL.	30304L ZINC EXTRBL.	38101L STRONTIUM DISSOLVED	48101L CADMIUM DISSOLVED	81101L THALLIUM DISSOLVED	82301L LEAD EXTRBL.	92101L URANIUM DISSOLVED	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	SR MG/L	CD MG/L	TL MG/L	PB MG/L	U MG/L	
SAMPLES(FLAGS)	0033	1(1)	2(2)	2(2)	1(0)	1(1)	1(1)	2(2)	1(0)	ECHANTILLONS(IND.)
LOW	0056	L.00	L.01	L.01	.05	L.00	L.0	L.01	.0001	MINIMUM
HIGH		L.00	L.01	L.01	.05	L.00	L.0	L.01	.0001	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH			L.01	L.01				L.01		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		10151L ALKALINITY PHENOL PTHALEIN	08301L OXYGEN TOTAL COD	09104L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
	SUBM ID	CACO3 MG/L	O2 MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0056	3(0)		3(2)	1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW	0033	.0		.07	3.	100.	2.	58.	MINIMUM
HIGH	0024	.0		L.10	3.	100.	2.	58.	MAXIMUM
AVERAGE		.0		.09*					MOYENNE
STD.DEV.		.0		.02*					ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		.0		L.10					50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					05L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00BC07FC0002 LAT 56 D 16 M 42 S LONG 120 D 42 M 6 S

UTM 10 642300E 6239200 N  
MAR 29 1976 TO/A SEP 21 1976BEATTON RIVER 9.92 KM. ENE OF FORT  
ST JOHN. HIGHWAY BRIDGE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0326	8(0)	6(0)	8(0)	8(0)	8(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW	118.	87.	48.4	50.	39.0	7.2	28.0	-1.6	MINIMUM
HIGH	805.	511.	257.	400.	550.	8.0	276.	.8	MAXIMUM
AVERAGE	268.	198.	98.9	171.	186.0		79.5		MOYENNE
STD.DEV.	241.	168.	70.5	126.	163.5		86.7		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	129.	89.	55.4	75.	82.0	7.3	29.8	-1.5	25 <sup>e</sup>
MEDIAN 50TH	161.	117.	74.4	135.	142.5	7.3	42.3	-1.2	50 <sup>e</sup> MEDIANE
75TH	320.	270.	113.0	250.	225.0	7.7	93.9	-.4	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0326	6(0)	6(0)	8(0)	8(0)	8(0)	6(0)	6(0)	ECHANTILLONS(IND.)
LOW	.6	4.1	15.0	2.6	0.	34.	2.2	34.3	MINIMUM
HIGH	9.0	90.0	75.5	16.6	0.	336.	7.8	155.	MAXIMUM
AVERAGE	3.4	26.0	29.8	6.0	0.	97.	4.6	64.8	MOYENNE
STD.DEV.	3.0	34.2	20.3	4.8	0.	106.	2.3	48.0	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.4	4.5	16.8	3.0	0.	36.	2.8	36.0	25 <sup>e</sup>
MEDIAN 50TH	2.7	8.6	22.3	3.8	0.	52.	3.8	39.8	50 <sup>e</sup> MEDIANE
75TH	3.7	40.0	34.7	7.5	0.	115.	7.0	84.0	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07557L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15102L PHOSPHORUS TOTAL DISSOLVED P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14105L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	
SAMPLES(FLAGS)	0326	12(0)	12(0)	5(0)	10(0)	6(0)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW	.011	.022	.61	.021	.095	5.4	6.6	5.6	MINIMUM
HIGH	.708	.480	2.00	.079	1.878	7.2	43.7	59.2	MAXIMUM
AVERAGE	.149	.090	.84	.038	.693	6.2	26.7	22.4	MOYENNE
STD.DEV.	.251	.130	.42	.024	.712	.7	11.5	18.1	ECART-TYPE
PERCNT:10TH	.011	.022	.61		.095		6.6	6.2	10 <sup>e</sup> PERCNT
25TH	.032	.026	.64	.022	.108	5.6	24.5	7.2	25 <sup>e</sup>
MEDIAN 50TH	.039	.035	.67	.03	.449	6.2	27.0	14.3	50 <sup>e</sup> MEDIANE
75TH	.091	.100	.81	.038	.940	6.9	32.5	40.5	75 <sup>e</sup>
90TH	.657	.140	1.35		1.878		38.9	40.5	90 <sup>e</sup>
SECONDARY CODE	10R	57R	51R		06R		01R	51R	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00BC07FC0002** LAT. **56 D 16 M 42 S** LONG. **120 D 42 M 6 S**UTM **10 642300 E 6239200 N**  
MAR 29, 1976 TO/A SEP 21, 1976BEATTON RIVER 9.92 KM. ENE OF FORT  
ST JOHN, HIGHWAY BRIDGE.

	03301P LITHIUM EXTRBL.	13101P ALUMINUM DISSOLVED	25304P MANGANESE EXTRBL.	26105R IRON DISSOLVED	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	
SUBM ID	LI MG/L	AL MG/L	MN MG/L	FE MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	
<b>SAMPLES(FLAGS)</b> 0326			8(0)	1(0)	12(0)	8(2)	8(1)	8(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			.05	.240	1.367	L.001	.004	.003	<b>MINIMUM</b>
<b>HIGH</b>			.33	.240	8.400	.008	.03	.025	<b>MAXIMUM</b>
<b>AVERAGE</b>			.18		3.176	.003*	.009*	.011	<b>MOYENNE</b>
<b>STD.DEV.</b>			.13		2.500	.003*	.009*	.008	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					1.430				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			.06		1.617	.001*	.004	.005	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			.16		2.366	.002	.006*	.008	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			.30		2.918	.005	.008	.016	<b>75<sup>e</sup></b>
<b>90TH</b>					8.40				<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>					05R				<b>CODE DE SECOURS</b>

	30305P ZINC EXTRBL.	33304P ARSENIC EXTRBL.	34302L SELENIUM EXTRBL.	38301P STRONTIUM EXTRBL.	48302P CADMIUM EXTRBL.	56302P BARIUM EXTRBL.	82103R LEAD DISSOLVED	82302P LEAD EXTRBL.	
SUBM ID	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	CD MG/L	BA MG/L	PB MG/L	PB MG/L	
<b>SAMPLES(FLAGS)</b> 0326	8(0)		7(0)		8(4)	6(0)	1(0)	8(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.002		.0003		L.000	.16	.607	L.001	<b>MINIMUM</b>
<b>HIGH</b>	.06		.0034		.001	.38	.607	.004	<b>MAXIMUM</b>
<b>AVERAGE</b>	.015		.0011		.000*	.27		.003*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.019		.0011		.000*	.09		.001*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.004		.0006		L.000	.19		.001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.010		.0007		.000*	.27		.003	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.017		.0014		.001	.36		.004	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>	04P								<b>CODE DE SECOURS</b>

	80311P MERCURY EXTRBL.	10151L ALKALINITY PHENOL PHTHALEIN	08301L OXYGEN TOTAL COD	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	HG UG/L	CAC03 MG/L	O2 MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0326	6(4)	8(0)		8(0)	8(0)	8(0)	8(0)	8(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.05	.0		.1	52.	148.	46.	58.	<b>MINIMUM</b>
<b>HIGH</b>	.13	.0		.2	802.	548.	736.	466.	<b>MAXIMUM</b>
<b>AVERAGE</b>	.07*	.0		.1	294.	230.	272.	160.	<b>MOYENNE</b>
<b>STD.DEV.</b>	.03*	.0		.1	260.	136.	242.	131.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.05	.0		.1	94.	158.	84.	85.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.05	.0		.1	212.	171.	197.	119.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.10	.0		.2	443.	243.	418.	176.	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>									<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00BC07FD0002 LAT. 56 D 10 M 0 S LONG. 120 D 41 M 30 S

UTM 10 643400E 6226800 N  
AUG 26 1966 TO/A MAY 22 1975PEACE RIVER AT HWY 97 BRIDGE  
TAYLOR BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE °CM								
SAMPLES(FLAGS)	0024	11(0)	11(0)	10(0)	11(0)	11(0)	11(0)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW	0326	174.	93.	89.	5.	7.5	7.8	79.5	-.2	MINIMUM
HIGH	0056	231.	120.	115.	35.	59.	8.2	102.	.2	MAXIMUM
AVERAGE		193.	104.	98.6	23.	38.7		89.1		MOYENNE
STD.DEV.		19.	10.	9.6	10.	14.4		9.4		ECART-TYPE
PERCNT:10TH		176.	94.	89.5	15.	26.	8.0	79.7	-.1	10 <sup>e</sup> PERCNT
25TH		179.	94.	90.	17.	30.	8.0	79.8	-.1	25 <sup>e</sup>
MEDIAN 50TH		179.	100.	94.5	20.	44.	8.1	83.4	.0	50 <sup>e</sup> MEDIANE
75TH		205.	111.	107.	35.	49.	8.1	99.0	.1	75 <sup>e</sup>
90TH		212.	114.	111.5	35.	50.	8.2	99.	.2	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0056	11(0)	11(0)	11(0)	1(0)	11(0)	11(0)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW	0024	.3	1.3	26.8	5.9	0.	97.	.3	9.5	MINIMUM
HIGH	0326	1.2	2.1	34.3	5.9	0.	124.	1.2	14.8	MAXIMUM
AVERAGE		.7	1.6	29.6		0.	109.	.8	11.4	MOYENNE
STD.DEV.		.2	.2	3.1		0.	12.	.3	2.0	ECART-TYPE
PERCNT:10TH		.5	1.4	26.8		0.	97.	.5	9.5	10 <sup>e</sup> PERCNT
25TH		.5	1.4	26.8		0.	97.	.5	9.7	25 <sup>e</sup>
MEDIAN 50TH		.7	1.6	27.6		0.	102.	.8	11.0	50 <sup>e</sup> MEDIANE
75TH		.7	1.7	31.6		0.	121.	1.1	14.0	75 <sup>e</sup>
90TH		.9	1.8	34.3		0.	121.	1.1	14.3	90 <sup>e</sup>
SECONDARY CODE				02L				03L	03L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07307L NITROGEN DISSOLVED NITRATE N MG/L	07557L NITROGEN DISSOLVED AMMONIA N MG/L	07651L NITROGEN DISSOLVED N MG/L	15257L PHOSPHORUS DISSOLVED ORTHOPHOSPHATE P MG/L	15365L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406R PHOSPHORUS TOTAL P MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0024	1(1)	2(2)		10(1)	9(0)	1(1)		17(0)	ECHANTILLONS(IND.)
LOW	0326	L.5	L.005		.017	.22	L.002		.060	MINIMUM
HIGH	0056	L.5	L.005		L.1	.39	L.002		.178	MAXIMUM
AVERAGE					.033*	.30			.107	MOYENNE
STD.DEV.					.024*	.05			.031	ECART-TYPE
PERCNT:10TH					.019				.077	10 <sup>e</sup> PERCNT
25TH					.021	.29			.085	25 <sup>e</sup>
MEDIAN 50TH			L.005		.025	.31			.091	50 <sup>e</sup> MEDIANE
75TH					.032	.32			.125	75 <sup>e</sup>
90TH					.066*				.149	90 <sup>e</sup>
SECONDARY CODE			08L		51L				06L 13L	CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00BC07FD0002** LAT. **56 D 10 M 0 S** LONG. **120 D 41 M 30 S**UTM **10 643400 E 6226800 N**  
AUG 26, 1966 TO/A MAY 22, 1975PEACE RIVER AT HWY 97 BRIDGE,  
TAYLOR, BRITISH COLUMBIA

		14105L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101F OXYGEN DISSOLVED DO	03301L LITHIUM EXTRBL.	25101L MANGANESE DISSOLVED	25304L MANGANESE EXTRBL.	26102L IRON DISSOLVED	26302L IRON EXTRBL.	
	SUBM ID	SI02 MG/L	C MG/L	O2 MG/L	LI MG/L	MN MG/L	MN MG/L	FE MG/L	FE MG/L	
<b>SAMPLES(FLAGS)</b>	0056	11(0)	10(1)			2(2)		2(1)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0024	2.2	L.5			L.010		L.001		<b>MINIMUM</b>
<b>HIGH</b>	0326	11.9	8.3			L.010		.070		<b>MAXIMUM</b>
<b>AVERAGE</b>		4.4	5.5*					.035*		<b>MOYENNE</b>
<b>STD.DEV.</b>		2.6	2.1*					.049*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		3.2	2.4*							<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		3.4	5.1							<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		3.9	5.8			L.010		.035*		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		4.0	6.1							<b>75<sup>e</sup></b>
<b>90TH</b>		4.5	7.7							<b>90<sup>e</sup></b>
SECONDARY CODE		02L								CODE DE SECOURS

		24052L CHROMIUM DISSOLVED	27302P COBALT EXTRBL.	28101L NICKEL DISSOLVED	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	38101L STRONTIUM DISSOLVED	38301P STRONTIUM EXTRBL.	
	SUBM ID	CR MG/L	CO MG/L	NI MG/L	NI MG/L	CU MG/L	ZN MG/L	SR MG/L	SR MG/L	
<b>SAMPLES(FLAGS)</b>	0326	1(1)	9(8)	1(1)	9(5)	9(0)	10(1)	1(0)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	L.004	L.001	L.00	L.001	.001	.002	.13	.09	<b>MINIMUM</b>
<b>HIGH</b>		L.004	.004	L.00	.014	.011	.034	.13	.11	<b>MAXIMUM</b>
<b>AVERAGE</b>			.001*		.002*	.003	.009*		.10	<b>MOYENNE</b>
<b>STD.DEV.</b>			.001*		.004*	.003	.009*		.01	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>							.003			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			L.001		L.001	.001	.004		.10	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			L.001		L.001	.002	.006		.10	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			L.001		.001	.002	.009		.10	<b>75<sup>e</sup></b>
<b>90TH</b>							.022*			<b>90<sup>e</sup></b>
SECONDARY CODE							04L			CODE DE SECOURS

		33304L ARSENIC EXTRBL.	42302P MOLYBDENUM EXTRBL.	48101L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	56302P BARIUM EXTRBL.	81101L THALLIUM DISSOLVED	82302P LEAD EXTRBL.	92101L URANIUM DISSOLVED	
	SUBM ID	AS MG/L	MO MG/L	CD MG/L	CD MG/L	BA MG/L	TL MG/L	PB MG/L	U MG/L	
<b>SAMPLES(FLAGS)</b>	0056	9(0)	9(9)	1(1)	9(9)	9(0)	1(1)	9(3)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0326	.0005	L.0005	L.00	L.000	.28	L.0	L.001	.0005	<b>MINIMUM</b>
<b>HIGH</b>		.0009	L.005	L.00	L.000	.44	L.0	L.01	.0005	<b>MAXIMUM</b>
<b>AVERAGE</b>		.0007				.33		.003*		<b>MOYENNE</b>
<b>STD.DEV.</b>		.0001				.06		.003*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.0006	L.0005		L.000	.28		.001		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.0007	L.0005		L.000	.30		.001		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.0008	L.0005		L.000	.35		.002		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE								01L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 1979

PEACE RIVER SUB BASIN

STATION 00BC07FD0002 LAT 56 D 10 M 0 S LONG. 120 D 41 M 30 S

UTM 10 643400E 6226800N  
SEP 03 1971 TO A JUN 19 1972

PEACE RIVER AT HWY 97 BRIDGE  
TAYLOR BRITISH COLUMBIA

	18130L ALDRIN	18070L GAMMA- BHC (LINDANE)	18150L HEOD (DIELDRIN)	18000L P.P.DDT	18010L P.P.TDE	18020L P.P.DDE	18050L ALPHA- ENDO- SULFAN	18060L BETA- ENDO- SULFAN	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS) 0103	3(3)	3(3)	3(3)	3(3)	3(3)	3(3)	2(2)	3(3)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.002	L.004	L.001	L.001	L.001	L.003	MINIMUM
HIGH	L.001	L.001	L.002	L.012	L.004	L.001	L.001	L.003	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001	L.002	L.004	L.002	L.001	L.001	L.003	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	18040L HEPTACHLOR	18045L HEPTACHLOR EPOXIDE	18030L P.P- METHOXY- CHLOR	18502L 2,4-D METHYL ESTER	18512L 2,4,5-T METHYL ESTER	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	09104L FLUORIDE DISSOLVED	08301L OXYGEN TOTAL COD	
SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0103	2(2)	3(3)	3(3)	1(1)	1(1)	11(0)	1(1)		ECHANTILLONS(IND.)
LOW 0056	L.001	L.002	L.001	L.004	L.001	.0	L.10		MINIMUM
HIGH 0326	L.001	L.002	L.012	L.004	L.001	.0	L.10		MAXIMUM
AVERAGE 0024						.0			MOYENNE
STD.DEV.						.0			ECART-TYPE
PERCNT:10TH						.0			10 <sup>e</sup> PERCNT
25TH						.0			25 <sup>e</sup>
MEDIAN 50TH	L.001	L.002	L.012			.0			50 <sup>e</sup> MEDIANE
75TH						.0			75 <sup>e</sup>
90TH						.0			90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00BC07FD0005** LAT. **56 D 7 M 45 S** LONG. **120 D 3 M 20 S**UTM **10 683000 E 6224000 N**

AUG 14, 1974 TO/A SEP 22, 1976

PEACE RIVER AT CLAYHURST FERRY NEAR  
B.C.-ALTA. BORDER BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301S PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b> 0326	36(0)	36(0)	35(0)	36(2)	36(0)	32(0)	36(0)	36(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0003	166.	93.	83.	15.	1.3	7.5	69.5	-.5	<b>MINIMUM</b>
<b>HIGH</b>	256.	143.	130.	120.	210.	8.4	128.	.3	<b>MAXIMUM</b>
<b>AVERAGE</b>	188.	102.	96.8	29.*	51.6		86.7		<b>MOYENNE</b>
<b>STD.DEV.</b>	16.	9.	8.1	29.*	58.7		9.8		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	175.	95.	85.	5.	1.7	7.7	78.9	-.2	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	180.	96.	92.8	5.	3.7	7.8	81.6	-.1	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	184.	101.	96.	16.	20.3	7.8	86.2	-.1	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	194.	106.	101.	38.	91.5	8.0	91.4	.0	<b>75<sup>e</sup></b>
<b>90TH</b>	200.	109.	103.	80.	135.	8.1	93.5	.2	<b>90<sup>e</sup></b>
SECONDARY CODE			06L						CODE DE SECOURS

	19106L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
<b>SAMPLES(FLAGS)</b> 0003		36(0)	36(0)	1(0)	35(0)	35(0)	36(0)	36(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0326		1.2	19.8	7.5	0.	85.	.5	8.5	<b>MINIMUM</b>
<b>HIGH</b>		7.2	39.0	7.5	0.	156.	2.5	17.	<b>MAXIMUM</b>
<b>AVERAGE</b>		1.9	28.25		0.	105.	1.0	11.6	<b>MOYENNE</b>
<b>STD.DEV.</b>		1.0	3.66		0.	12.	.5	2.1	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		1.4	22.1		0.	96.	.6	9.3	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		1.5	27.35		0.	99.	.6	10.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		1.6	28.60		0.	105.	.7	11.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		2.0	30.30		0.	111.	1.2	13.7	<b>75<sup>e</sup></b>
<b>90TH</b>		2.3	31.1		0.	113.	1.9	14.5	<b>90<sup>e</sup></b>
SECONDARY CODE			03L				03L		CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07110R NITROGEN DISSOLVED NO3 & NO2	07557R NITROGEN DISSOLVED AMMONIA	07651R NITROGEN DISSOLVED	15102L PHOSPHORUS TOTAL DISSOLVED	15406R PHOSPHORUS TOTAL	14105L SILICA REACTIVE	08101S OXYGEN DISSOLVED DO	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	SiO2 MG/L	O2 MG/L	
<b>SAMPLES(FLAGS)</b> 0326	5(1)	213(1)	200(0)	200(0)	9(0)	213(0)	36(0)	5(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0003	1.1	.007	.001	.11	.004	.003	3.1	7.8	<b>MINIMUM</b>
<b>HIGH</b>	.2	.240	.089	.79	.556	3.033	4.6	13.6	<b>MAXIMUM</b>
<b>AVERAGE</b>	.2*	.050*	.019	.24	.070	.257	3.8	10.4	<b>MOYENNE</b>
<b>STD.DEV.</b>	.1*	.033*	.014	.11	.182	.413	.4	2.3	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.018	.005	.14		.022	3.3		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.1	.030	.009	.16	.007	.028	3.6	9.5	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.2	.045	.014	.21	.008	.087	3.7	9.5	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.2	.065	.026	.30	.011	.297	4.0	11.7	<b>75<sup>e</sup></b>
<b>90TH</b>		.083	.039	.39		.619	4.3		<b>90<sup>e</sup></b>
SECONDARY CODE		10L 06L	57L 56L	51L		06L	02L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00BC07FD0005 LAT 56 D 7 M 45 S LONG. 120 D 3 M 20 S

UTM 10 683000E 6224000 N

AUG 14 1974 TO A SEP 22 1976

PEACE RIVER AT CLAYHURST FERRY NEAR  
B.C.-ALTA. BORDER BRITISH COLUMBIA

	06001R CARBON TOTAL ORGANIC	06051R CARBON TOTAL INORGANIC	06101L CARBON DISSOLVED ORGANIC	06151L CARBON DISSOLVED INORGANIC	06552L TANNIN AND LIGNIN	06604P CYANIDE DISSOLVED	06711L CHLORO PHYLL A	06901R CARBON ORGANIC PARTICUL	
SUBM ID	C MG/L	C MG/L	C MG/L	C MG/L	LIG SULPH MG/L	CN MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0003 85(0)	85(0)	2(0)	2(0)	10(0)	3(2)	5(4)	20(0)	ECHANTILLONS(IND.)
LOW	0326 1.1	13.	8.0	20.5	.19	L.005	L.005	.003	MINIMUM
HIGH	22.5	26.	8.1	21.8	.24	.011	.006	.043	MAXIMUM
AVERAGE	5.8	20.8	8.0	21.1	.20	.007*	.0052*	.011	MOYENNE
STD.DEV.	4.9	2.3	.1	.9	.02	.003*	.0004*	.009	ECART-TYPE
PERCNT:10TH	2.	17.9			.19			.004	10 <sup>e</sup> PERCNT
25TH	2.6	19.5			.19		L.005	.007	25 <sup>e</sup>
MEDIAN 50TH	3.7	20.8	8.0	21.1	.20	L.005	L.005	.008	50 <sup>e</sup> MEDIANE
75TH	7.2	22.5			.21		L.005	.010	75 <sup>e</sup>
90TH	13.9	23.4			.24			.020	90 <sup>e</sup>
SECONDARY CODE	01L	51L				04L			CODE DE SECOURS

	06536P PHENOLIC MATERIAL	09106L FLUORIDE DISSOLVED	05103L BORON DISSOLVED	13305P ALUMINUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26105R IRON DISSOLVED	26305R IRON EXTRBLE	
SUBM ID	PHENOL MG/L	F MG/L	B MG/L	AL MG/L	CR MG/L	MN MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0326 12(11)	36(2)	14(6)	5(0)	5(5)	38(8)	3(0)	203(0)	ECHANTILLONS(IND.)
LOW	0003 L.000	.05	L.00	.045	L.015	.009	.009	.082	MINIMUM
HIGH	.022	.18	.14	.43	L.015	1.2	.009	18.000	MAXIMUM
AVERAGE	.003*	.07*	.02*	.171		.082*	.009	1.479	MOYENNE
STD.DEV.	.006*	.03*	.04*	.160		.194*	.000	2.389	ECART-TYPE
PERCNT:10TH	L.000	.05	L.00			.010		.150	10 <sup>e</sup> PERCNT
25TH	L.000	.05	L.00	.060	L.015	L.01		.232	25 <sup>e</sup>
MEDIAN 50TH	L.000	.06	.01	.10	L.015	.040	.009	.577	50 <sup>e</sup> MEDIANE
75TH	L.003	.07	.03	.22	L.015	.08		1.617	75 <sup>e</sup>
90TH	L.005	.08	.07			.17		3.567	90 <sup>e</sup>
SECONDARY CODE	32P	05L	05L	02P		05R		05P	CODE DE SECOURS

	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33104L ARSENIC DISSOLVED	33304L ARSENIC EXTRBLE.	34102L SELENIUM DISSOLVED	34302L SELENIUM EXTRBLE.	38301P STRONTIUM EXTRBLE	
SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	AS MG/L	SE MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0326 30(12)	30(5)	30(3)	5(5)	19(0)	5(4)	15(0)	14(0)	ECHANTILLONS(IND.)
LOW	0003 L.001	L.001	L.001	L.0005	.0001	L.0005	.0002	.05	MINIMUM
HIGH	.009	.010	.021	L.0005	.0058	.0006	.0011	.13	MAXIMUM
AVERAGE	.003*	.004*	.007*		.0021	.0005*	.0004	.10	MOYENNE
STD.DEV.	.002*	.003*	.006*		.0018	.0000*	.0003	.02	ECART-TYPE
PERCNT:10TH	L.001	L.001	.001*		.0002		.0002	.06	10 <sup>e</sup> PERCNT
25TH	L.001	.001	.001	L.0005	.0005	L.0005	.0002	.09	25 <sup>e</sup>
MEDIAN 50TH	.002	.003	.006	L.0005	.0015	L.0005	.0003	.10	50 <sup>e</sup> MEDIANE
75TH	.005	.005	.011	L.0005	.0036	L.0005	.0005	.11	75 <sup>e</sup>
90TH	.007	.008	.016		.0053		.0009	.13	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00BC07FD0005 LAT. 56 D 7 M 45 S LONG. 120 D 3 M 20 S

UTM 10 683000E 6224000 N

SEP 12, 1972 TO/A SEP 22, 1976

PEACE RIVER AT CLAYHURST FERRY NEAR  
B.C.-ALTA. BORDER, BRITISH COLUMBIA

		42302P MOLYBDENUM EXTRBLE.	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	82302P LEAD EXTRBLE.	18070L GAMMA- BHC (LINDANE)	18500L 2,4-D	18502L 2,4-D METHYL ESTER	
	SUBM ID	MO MG/L	CD MG/L	BA MG/L	HG UG/L	PB MG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0103	14(13)	30(24)	5(1)	18(18)	30(13)	4(4)	5(5)	1(1)	ECHANTILLONS(IND.)
LOW	0326	L.0005	L.000	L.0	L.05	L.001	L.001	L.004	L.004	MINIMUM
HIGH	0003	L.10	.004	.1	L.05	.007	L.001	L.004	L.004	MAXIMUM
AVERAGE		.0360*	.001*	.1*		.002*				MOYENNE
STD.DEV.		.0495*	.001*	.0*		.002*				ECART-TYPE
PERCNT:10TH		L.0005	L.000		L.05	L.001				10 <sup>e</sup> PERCNT
25TH		L.0005	L.000	.1	L.05	L.001	L.001	L.004		25 <sup>e</sup>
MEDIAN 50TH		L.0005	L.000	.1	L.05	.002	L.001	L.004		50 <sup>e</sup> MEDIANE
75TH		L.10	.000	.1	L.05	.003	L.001	L.004		75 <sup>e</sup>
90TH		L.10	L.001		L.05	.004*				90 <sup>e</sup>
SECONDARY CODE		01P								CODE DE SECOURS

		18510L 2,4,5-T	18512L 2,4,5-T METHYL ESTER	18550L 2,4-DB	18555L DICHLORPROP	18520L MCPA	18160L AROCLOL 1254 (PCB'S)	18161L AROCLOL 1248 (PCB'S)	18162L AROCLOL 1260 (PCB'S)	
	SUBM ID	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
SAMPLES(FLAGS)	0003	5(4)	1(1)	6(6)	6(6)	5(5)	5(5)	5(5)	5(5)	ECHANTILLONS(IND.)
LOW	0103	L.002	L.001	L.006	L.002	L.2	L.03	L.02	L.055	MINIMUM
HIGH		.002	L.001	L.009	L.004	L.2	L.032	L.024	L.06	MAXIMUM
AVERAGE		.002*								MOYENNE
STD.DEV.		.000*								ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.002		L.009	L.004	L.2	L.03	L.02	L.06	25 <sup>e</sup>
MEDIAN 50TH		L.002		L.009	L.004	L.2	L.03	L.02	L.06	50 <sup>e</sup> MEDIANE
75TH		L.002		L.009	L.004	L.2	L.03	L.02	L.06	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00BC07FD0007 LAT 55 D 57 M 24 S LONG 120 D 33 M 51 S

UTM 10 652100E 6203700N

MAR 29 1976 TO A SEP 21 1976

KISKATINAW RIVER ALASKA HWY BRIDGE  
NEAR FARMINGTON

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS) 0326	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW	204.	114.	108.	35.	31.0	7.7	103.	.0	MINIMUM
HIGH	456.	264.	233.	160.	225.	8.5	223.	1.1	MAXIMUM
AVERAGE	335.	192.	178.6	74.	102.6		171.1		MOYENNE
STD.DEV.	106.	62.	53.8	41.	78.2		51.5		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	208.	115.	109.	40.	37.0	7.8	103.	.1	25 <sup>e</sup>
MEDIAN 50TH	377.	219.	212.	70.	63.	8.0	202.	.5	50 <sup>e</sup> MEDIANE
75TH	438.	251.	220.	80.	175.	8.3	208.	.6	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS) 0326	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW	1.1	2.6	33.5	5.7	0.	126.	.8	6.1	MINIMUM
HIGH	4.3	10.0	70.3	14.8	6.	272.	2.2	31.0	MAXIMUM
AVERAGE	2.2	5.9	54.5	10.3	1.	207.	1.5	15.0	MOYENNE
STD.DEV.	1.2	3.1	15.8	4.0	2.	62.	.5	11.1	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.1	2.8	33.9	6.2	0.	126.	.9	7.0	25 <sup>e</sup>
MEDIAN 50TH	2.0	6.0	61.9	9.1	0.	234.	1.5	10.6	50 <sup>e</sup> MEDIANE
75TH	3.6	10.0	68.9	14.5	0.	254.	1.9	31.0	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2	07557L NITROGEN DISSOLVED AMMONIA	07651L NITROGEN DISSOLVED	15102L PHOSPHORUS TOTAL DISSOLVED	15406L PHOSPHORUS TOTAL	14105L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	
SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	C MG/L	
SAMPLES(FLAGS) 0326	11(0)	11(0)	11(0)	5(0)	11(0)	7(0)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW	.011	.013	.29	.005	.045	4.7	8.2	24.5	MINIMUM
HIGH	.126	.131	.68	.108	1.08	6.3	29.5	51.8	MAXIMUM
AVERAGE	.043	.053	.49	.034	.298	5.5	16.4	40.1	MOYENNE
STD.DEV.	.039	.036	.16	.044	.364	.6	6.8	10.6	ECART-TYPE
PERCNT:10TH	.011	.013	.29		.045		8.2	27.4	10 <sup>e</sup> PERCNT
25TH	.015	.036	.33	.008	.055	4.8	10.9	28.0	25 <sup>e</sup>
MEDIAN 50TH	.036	.039	.53	.010	.155	5.5	18.3	44.8	50 <sup>e</sup> MEDIANE
75TH	.047	.087	.63	.038	.511	5.9	21.3	51.2	75 <sup>e</sup>
90TH	.107	.094	.67		.878		22.5	51.2	90 <sup>e</sup>
SECONDARY CODE	10R	51R	51R		06R		01R	51R	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

PEACE RIVER SUB-BASIN

STATION **00BC07FD0007** LAT. **55 D 57M 24 S** LONG. **120 D 33M 51 S**

UTM **10 652100E 6203700 N**  
MAR 29, 1976 TO/À SEP 21, 1976

KISKATINAW RIVER. ALASKA HWY BRIDGE.  
NEAR FARMINGTON.

	03301P LITHIUM EXTRBL.	13101P ALUMINUM DISSOLVED	25304P MANGANESE EXTRBL.	26105R IRON DISSOLVED	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	
SUBM ID	LI MG/L	AL MG/L	MN MG/L	FE MG/L	MG/L	CO MG/L	NI MG/L	CU MG/L	
<b>SAMPLES(FLAGS)</b> 0326			7(0)	1(0)	11(0)	7(4)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW			.03	.033	.363	L.001	.001	.002	MINIMUM
HIGH			.45	.033	4.533	.006	.014	.02	MAXIMUM
AVERAGE			.12		1.381	.002*	.005	.007	MOYENNE
STD.DEV.			.15		1.289	.002*	.005	.007	ECART-TYPE
PERCNT:10TH					.363				10 <sup>e</sup> PERCNT
25TH			.03		.495	L.001	.001	.002	25 <sup>e</sup>
MEDIAN 50TH			.04		.983	L.001	.001	.004	50 <sup>e</sup> MEDIANE
75TH			.17		1.933	.002	.007	.011	75 <sup>e</sup>
90TH					2.800				90 <sup>e</sup>
SECONDARY CODE					05R				CODE DE SECOURS

	30305P ZINC EXTRBL.	33304P ARSENIC EXTRBL.	34302L SELENIUM EXTRBL.	38301P STRONTIUM EXTRBL.	48302P CADMIUM EXTRBL.	56302P BARIUM EXTRBL.	82103R LEAD DISSOLVED	82302P LEAD EXTRBL.	
SUBM ID	ZN MG/L	AS MG/L	SE MG/L	SR MG/L	CD MG/L	BA MG/L	PB MG/L	PB MG/L	
<b>SAMPLES(FLAGS)</b> 0326	7(1)		6(0)		7(4)	5(0)	1(0)	7(1)	ECHANTILLONS(IND.)
LOW	L.001		.0002		L.000	.30	.253	L.001	MINIMUM
HIGH	.04		.0014		.001	.43	.253	.01	MAXIMUM
AVERAGE	.010*		.0005		.000*	.36		.003*	MOYENNE
STD.DEV.	.015*		.0005		.000*	.05		.003*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.001		.0002		L.000	.34		.001	25 <sup>e</sup>
MEDIAN 50TH	.002		.0004		L.000	.36		.001	50 <sup>e</sup> MEDIANE
75TH	.018		.0004		.001	.39		.005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04P								CODE DE SECOURS

	80311P MERCURY EXTRBL.	10151L ALKALINITY PHENOL PHTHALEIN	08301L OXYGEN TOTAL COD	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	HG UG/L	CACO3 MG/L	O2 MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0326	5(5)	7(0)		7(0)	6(0)	6(0)	6(0)	6(0)	ECHANTILLONS(IND.)
LOW	L.05	.0		.1	29.	188.	25.	120.	MINIMUM
HIGH	L.05	5.0		.2	517.	352.	487.	236.	MAXIMUM
AVERAGE		.7		.1	146.	267.	136.	186.	MOYENNE
STD.DEV.		1.9		.0	194.	57.	184.	42.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.05	.0		.1	29.	224.	26.	168.	25 <sup>e</sup>
MEDIAN 50TH	L.05	.0		.1	47.	274.	43.	183.	50 <sup>e</sup> MEDIANE
75TH	L.05	.0		.2	208.	292.	193.	228.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00CB07ED0001 LAT 55 D 23M 0 S LONG 125 D 17M 30 S

RITM 10 354800 6139600  
JUL 21 1977 TO/A SEP 04 1977NATION RIVER AT INLET TO  
INDATA LAKE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
	SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L	
SAMPLES(FLAGS)	0301	2(0)	1(0)		1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW		83.	46.8		7.8	51.	15.1	2.2	MINIMUM
HIGH		103.	46.8		7.8	51.	15.1	2.2	MAXIMUM
AVERAGE		93.							MOYENNE
STD.DEV.		14.							ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		93.							50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			03E						CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL P MG/L	
	SUBM ID	NO3 MG/L	N MG/L	N MG/L	N MG/L	N MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301	1(1)	1(1)	1(1)	1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	.13	.009	.14	L.003	MINIMUM
HIGH		L.02	L.005	L.02	.13	.009	.14	L.003	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
	SUBM ID	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L
SAMPLES(FLAGS)	0301			3(0)	4(4)	2(1)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW				1.8	L.005	L.02	.2	L.01	MINIMUM
HIGH				2.4	L.005	.02	.3	L.01	MAXIMUM
AVERAGE				2.0		.02*	.28	.002	MOYENNE
STD.DEV.				.3		.00*	.05	.002	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					L.005		.25	L.010	25 <sup>e</sup>
MEDIAN 50TH				1.8	L.005	.02*	.30	L.010	50 <sup>e</sup> MEDIANE
75TH					L.005		.30	L.010	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02L	04L	04L	02E	05L	CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07ED0001** LAT. **55 D 23M 0 S** LONG. **125 D 17M 30 S**UTM **10 354800 E 6139600 N**  
JUN 24, 1977 TO/A OCT 16, 1977NATION RIVER AT INLET TO  
INDATA LAKE, BRITISH COLUMBIA

	30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS) 0301	4(2)	4(1)	4(4)	3(1)	4(3)	1(0)	2(0)	ECHANTILLONS(IND.)
LOW	L.005	L.0005	L.0005	L.05	L.001	66.	2.	MINIMUM
HIGH	.009	.0012	L.005	.1	.002	66.	3.	MAXIMUM
AVERAGE	.006*	.0008*		.07*	.001*		3.	MOYENNE
STD.DEV.	.002*	.0003*		.03*	.001*		1.	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	L.005	.0006*	L.0005		L.001			25 <sup>e</sup>
MEDIAN 50TH	.006*	.0007	L.0005	.06	L.001		3.	50 <sup>e</sup> MEDIANE
75TH	.008	.0010	L.0027		.001*			75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE	05L	02L	03L		02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00CB07ED0002 LAT. 55 D 18 M 30 S LONG. 125 D 14 M 0 S

UTM 10 358200E 6131200 N  
JUL 21 1977 TO A SEP 04 1977NATION RIVER AT OUTLET FROM  
INDATA LAKE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07004E NITROGEN TOTAL KJELDAHL N MG/L	
SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L		
SAMPLES(FLAGS) 0301	2(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW	81.	41.8	.5	7.9	45.7	13.6	1.9	.1	MINIMUM
HIGH	90.	41.8	.5	7.9	45.7	13.6	1.9	.1	MAXIMUM
AVERAGE	86.								MOYENNE
STD.DEV.	6.								ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	86.								50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	
SUBM ID	NO3 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	1(1)	1(1)	1(1)	1(0)	1(0)	1(0)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW	L.02	L.005	L.02	.13	.009	.14	L.003	.005	MINIMUM
HIGH	L.02	L.005	L.02	.13	.009	.14	L.003	.005	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	12002E MAGNESIUM TOTAL MG	24002E CHROMIUM TOTAL CR MG/L	25004E MANGANESE TOTAL MN MG/L	26004L IRON TOTAL FE MG/L	28007L NICKEL TOTAL NI MG/L	29004L COPPER TOTAL CU MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301			1(0)	4(3)	2(0)	4(0)	4(3)	4(0)	ECHANTILLONS(IND.)
LOW			1.8	L.005	1.8	.1	L.01	.001	MINIMUM
HIGH			1.8	.01	2.1	.2	.03	.007	MAXIMUM
AVERAGE				.006*	1.95	.15	.015*	.003	MOYENNE
STD.DEV.				.003*	.21	.06	.010*	.003	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				L.005		.10	L.010	.002	25 <sup>e</sup>
MEDIAN 50TH				L.005	1.95	.15	L.010	.002	50 <sup>e</sup> MEDIANE
75TH				.007*		.20	.020*	.005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02L	.4.	04L		02E		CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07ED0002** LAT. **55 D 18 M 30 S** LONG. **125 D 14 M 0 S**UTM **10 358200 E 6131200 N**  
JUN 24, 1977 TO/A OCT 14, 1977NATION RIVER AT OUTLET FROM  
INDATA LAKE, BRITISH COLUMBIA

	30003L	42001E	48002L	80013E	82004L	10471L	10402L	
	ZINC	MOLYBDENUM	CADMIUM	MERCURY	LEAD	RESIDUE	RESIDUE	
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	NONFILTR.	
SUBM	ZN	MO	CD	HG	PB			
ID	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301	4(2)	4(1)	4(4)	3(3)	4(2)	1(0)	2(1)
LOW	L.005	L.0005	L.005	L.05	L.001	58.	L1.	ECHANTILLONS(IND.)
HIGH	.009	.0007	L.005	L.05	.005	58.	2.	MINIMUM
AVERAGE	.006*	.0006*			.002*		1.*	MAXIMUM
STD.DEV.	.002*	.0001*			.002*		1.*	MOYENNE
PERCNT:10TH								ECART-TYPE
25TH	L.005	.0005*	L.0050		L.001			10 <sup>e</sup> PERCNT
MEDIAN 50TH	.006*	.0006	L.0050	L.05	.001*		1.*	25 <sup>e</sup>
75TH	.008	.0007	L.0050		.004			50 <sup>e</sup> MEDIANE
90TH								75 <sup>e</sup>
SECONDARY CODE	05L	02L	03L		02L			90 <sup>e</sup>
								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00CB07ED0003 LAT. 55 D 18 M 30 S LONG. 125 D 14 M 0 S

UTM 10 358200E 6131200 N  
JUL 23 1977 TO/A SEP 04 1977ROTTACKER CREEK AT CONFLUENCE WITH  
NATION RIVER NEAR INDATA LAKE OUTLET

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL	
	USIE CM	CACO3 MG/L		PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L	N MG/L	
SAMPLES(FLAGS)	0301	2(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW	66.	36.8	.7	7.7	41.6	12.1	1.6	.3	MINIMUM
HIGH	81.	36.8	.7	7.7	41.6	12.1	1.6	.3	MAXIMUM
AVERAGE	74.								MOYENNE
STD.DEV.	11.								ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	74.								50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	
	NO3 MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	
SAMPLES(FLAGS)	0301	1(0)	1(1)	1(0)	1(0)	1(0)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW	.02	L.005	.02	.24	.001	.27	L.003	.004	MINIMUM
HIGH	.02	L.005	.02	.24	.001	.27	L.003	.004	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS)	0301		3(0)	4(4)	2(2)	4(0)	4(2)	4(2)	ECHANTILLONS(IND.)
LOW			1.	L.005	L.02	.2	L.01	L.001	MINIMUM
HIGH			1.5	L.005	L.02	.2	.02	.004	MAXIMUM
AVERAGE			1.2			.20	.012*	.002*	MOYENNE
STD.DEV.			.3			.00	.005*	.002*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				L.005		.20	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH			1.2	L.005	L.02	.20	.010*	.002*	50 <sup>e</sup> MEDIANE
75TH				L.005		.20	.015	.004	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02L	34.			02E	05L	CODE DE SECOURS



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07ED0003** LAT. **55 D 18 M 30 S** LONG. **125 D 14 M 0 S**UTM **10 358200E 6131200 N**  
JUN 24, 1977 TO/A OCT 14, 1977ROTTACKER CREEK AT CONFLUENCE WITH  
NATION RIVER NEAR INDATA LAKE OUTLET

		30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0301	4(4)	4(2)	4(4)	3(2)	4(3)	1(0)	2(0)	ECHANTILLONS(IND.)
LOW		L.005	L.0005	L.0005	L.05	L.001	52.	1.	MINIMUM
HIGH		L.005	.0009	L.0005	.06	.001	52.	2.	MAXIMUM
AVERAGE			.0006*		.05*	.001*		2.	MOYENNE
STD.DEV.			.0002*		.01*	.000*		1.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.005	L.0005	L.0005		L.001			25 <sup>e</sup>
MEDIAN 50TH		L.005	.0005*	L.0005	L.05	L.001		2.	50 <sup>e</sup> MEDIANE
75TH		L.005	.0008	L.0005		.001*			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		05L	02L	03L		02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07ED0004 LAT. 55 D 17M 0 S LONG. 125 D 14M 0 S

UTM 10 358200E 6128400 N  
JUL 23 1977 TO/A SEP 04 1977ALBERT CREEK DRAINING TO NATION RIVER  
BETWEEN INDATA AND TCHENTLO LAKES

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL	
SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L	N MG/L	
SAMPLES(FLAGS) 0301	2(0)	1(0)	1(0)	1(0)	1(0)	1(0)	2(0)	1(0)	ECHANTILLONS(IND.)
LOW	66.	35.	.4	7.8	38.	7.9	3.3	.1	MINIMUM
HIGH	75.	35.	.4	7.8	38.	7.9	3.7	.1	MAXIMUM
AVERAGE	71.						3.5		MOYENNE
STD.DEV.	6.						.3		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	71.						3.5		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	
SUBM ID	NO3 MG/L	N MG/L	N MG/L	MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	
SAMPLES(FLAGS) 0301	1(1)	1(1)	1(1)	1(0)	1(0)	1(0)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW	L.02	L.005	L.02	.06	.009	.07	L.003	.004	MINIMUM
HIGH	L.02	L.005	L.02	.06	.009	.07	L.003	.004	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
SUBM ID	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS) 0301			3(1)	4(3)	1(1)	4(0)	4(3)	4(3)	ECHANTILLONS(IND.)
LOW			L.0	L.005	L.02	.1	L.01	L.001	MINIMUM
HIGH			4.2	.005	L.02	.2	.03	.003	MAXIMUM
AVERAGE			2.4*	.005*		.13	.015*	.001*	MOYENNE
STD.DEV.			2.2*	.000*		.05	.010*	.001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				L.005		.10	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH			3.1	L.005		.10	L.010	L.001	50 <sup>e</sup> MEDIANE
75TH				.005*		.15	.020*	.002*	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02L						CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07ED0004** LAT. **55 D 17 M 0 S** LONG. **125 D 14 M 0 S**UTM **10 358200E 6128400 N**  
JUN 24, 1977 TO/A OCT 14, 1977ALBERT CREEK DRAINING TO NATION RIVER  
BETWEEN INDATA AND TCHENTLO LAKES

		30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0301	4(4)	4(2)	4(4)	3(3)	4(2)	1(0)	2(0)	ECHANTILLONS(IND.)
LOW		L.005	L.0005	L.0005	L.05	L.001	50.	1.	MINIMUM
HIGH		L.005	.001	L.0005	L.05	.003	50.	2.	MAXIMUM
AVERAGE			.0006*			.001*		2.	MOYENNE
STD.DEV.			.0003*			.001*		1.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.005	L.0005	L.0005		L.001			25 <sup>e</sup>
MEDIAN 50TH		L.005	.0005*	L.0005	L.05	.001*		2.	50 <sup>e</sup> MEDIANE
75TH		L.005	.0008	L.0005		.002			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		05L	02L	03L		02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 00CB07ED0005 LAT 55° 17' 0" S LONG 125° 13' 0" W

ITEM 10 359200 6128400

JUL 23 1977 TO/A SEP 04 1977

NATION RIVER AT INLET TO  
TCHENTLO LAKE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N	
SUBM ID	USIE/CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L	MG/L	
SAMPLES(FLAGS)	0301	2(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW		77.	39.8	.5	7.9	43.3	12.	2.1	MINIMUM
HIGH		86.	39.8	.5	7.9	43.3	12.	2.1	MAXIMUM
AVERAGE		82.							MOYENNE
STD.DEV.		6.							ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		82.							50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	
SUBM ID	NO3 MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	
SAMPLES(FLAGS)	0301	1(1)	1(1)	1(0)	1(0)	1(0)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	.04	.01	.05	L.003	MINIMUM
HIGH		L.02	L.005	L.02	.04	.01	.05	L.003	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
SUBM ID	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS)	0301		3(0)	4(4)	1(1)	4(0)	4(3)	4(3)	ECHANTILLONS(IND.)
LOW			2.1	L.005	L.02	.1	L.01	L.001	MINIMUM
HIGH			2.6	L.005	L.02	.2	.02	L.01	MAXIMUM
AVERAGE			2.3			.15	.015*	.004*	MOYENNE
STD.DEV.			.3			.06	.006*	.004*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH			2.1	L.005		.10	L.010	L.001	50 <sup>e</sup> MEDIANE
75TH				L.005		.15	L.015	.002*	75 <sup>e</sup>
90TH						.20	.020*	.006*	90 <sup>e</sup>
SECONDARY CODE			02L	04L			02E	05L	CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07ED0005** LAT. **55 D 17 M 0 S** LONG. **125 D 13 M 0 S**UTM **10 359200 E 6128400 N**  
JUN 24, 1977 TO/A OCT 14, 1977NATION RIVER AT INLET TO  
TCHENTLO LAKE, BRITISH COLUMBIA

		30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0301	4(2)	4(1)	4(4)	2(2)	4(3)	1(0)	1(1)	ECHANTILLONS(IND.)
LOW		L.005	L.0005	L.0005	L.05	L.001	62.	L1.	MINIMUM
HIGH		.006	.0012	L.0005	L.05	.001	62.	L1.	MAXIMUM
AVERAGE		.005*	.0008*			.001*			MOYENNE
STD.DEV.		.001*	.0003*			.000*			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.005	.0006*	L.0005		L.001			25 <sup>e</sup>
MEDIAN 50TH		.005*	.0007	L.0005	L.05	L.001			50 <sup>e</sup> MEDIANE
75TH		.006	.0010	L.0005		.001*			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		05L	02L	03L		02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00CB07ED0006 LAT. 55 D 13M 0 S LONG. 125 D 17M 0 S

UTM 10 354800E 6121000 N  
JUL 24 1977 TO/A SEP 04 1977PURVIS CREEK AT INLET TO  
PURVIS LAKE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L		
SAMPLES(FLAGS) 0301	2(0)	1(0)	1(0)	1(0)	1(0)	1(0)		1(0)	ECHANTILLONS(IND.)
LOW	68.	41.4	.8	7.8	43.1	7.		.1	MINIMUM
HIGH	83.	41.4	.8	7.8	43.1	7.		.1	MAXIMUM
AVERAGE	76.								MOYENNE
STD.DEV.	11.								ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	76.								50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	
SUBM ID	NO3 MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	MG/L	P MG/L	
SAMPLES(FLAGS) 0301	1(1)	1(1)	1(1)	1(0)	1(0)	1(0)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW	L.02	L.005	L.02	.08	.011	.09	L.003	.006	MINIMUM
HIGH	L.02	L.005	L.02	.08	.011	.09	L.003	.006	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
SUBM ID	MG/L	MG/L	MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS) 0301			3(0)	4(3)	2(2)	4(0)	4(2)	4(3)	ECHANTILLONS(IND.)
LOW			4.1	L.005	L.02	.1	L.01	L.001	MINIMUM
HIGH			5.6	L.05	L.02	.3	.03	.004	MAXIMUM
AVERAGE			4.7	.016*		.20	.015*	.002*	MOYENNE
STD.DEV.			.8	.022*		.08	.010*	.002*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				L.005		.15	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH			4.4	.005*	L.02	.20	.010*	L.001	50 <sup>e</sup> MEDIANE
75TH				.028*		.25	.020	.002*	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				04L					CODE DE SECOURS

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00CB07ED0006** LAT. **55 D 13M 0 S** LONG. **125 D 17M 0 S**

UTM **10 354800E 6121000 N**  
JUN 25, 1977 TO/A OCT 18, 1977

PURVIS CREEK AT INLET TO  
PURVIS LAKE, BRITISH COLUMBIA

	30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
<b>SAMPLES(FLAGS)</b> 0301	4(4)	4(4)	4(4)	3(1)	4(3)	1(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>5.</b>	<b>2.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>	<b>.11</b>	<b>.003</b>	<b>5.</b>	<b>4.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.07*</b>	<b>.001*</b>		<b>3.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>.03*</b>	<b>.001*</b>		<b>1.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.005	L.0005	L.0005		L.001			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>	<b>.05</b>	<b>L.001</b>		<b>3.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.005	L.0005	L.0005		.002*			<b>75<sup>e</sup></b>
<b>90TH</b>								<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>	05L	02L	03L		02L			<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07ED0007 LAT. 55 D 11M 0 S LONG. 125 D 4M 0 S

UTM 10 368400E 6117000 N  
JUL 24. 1977 TO/A SEP 04 1977AIRLINE CREEK AT INLET TO  
TCHENTLO LAKE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L		
SAMPLES(FLAGS) 0301	2(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW	122.	63.8	19.	8.	65.7	17.8	4.7	.2	MINIMUM
HIGH	129.	63.8	19.	8.	65.7	17.8	4.7	.2	MAXIMUM
AVERAGE	126.								MOYENNE
STD.DEV.	5.								ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	126.								50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED NO3 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301	1(1)	1(1)	1(1)	1(0)	1(0)	1(0)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW	L.02	L.005	L.02	.16	.019	.18	L.003	.007	MINIMUM
HIGH	L.02	L.005	L.02	.16	.019	.18	L.003	.007	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	12002E MAGNESIUM TOTAL MG MG/L	24002E CHROMIUM TOTAL CR MG/L	25004E MANGANESE TOTAL MN MG/L	26004L IRON TOTAL FE MG/L	28007L NICKEL TOTAL NI MG/L	29004L COPPER TOTAL CU MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301			4(0)	5(4)	3(3)	5(0)	5(4)	5(3)	ECHANTILLONS(IND.)
LOW			4.6	L.005	L.02	.1	L.01	L.001	MINIMUM
HIGH			4.9	.005	L.02	.2	.02	.004	MAXIMUM
AVERAGE			4.7	.005*		.16	.012*	.002*	MOYENNE
STD.DEV.			.1	.000*		.05	.004*	.001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			4.7	L.005		.1	L.01	L.001	25 <sup>e</sup>
MEDIAN 50TH			4.7	L.005	L.02	.2	L.01	L.001	50 <sup>e</sup> MEDIANE
75TH			4.8	L.005		.2	L.01	.003	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02L	04L	04L		02E	05L	CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07ED0007** LAT. **55 D 11 M 0 S** LONG. **125 D 4 M 0 S**UTM **10 368400E 6117000 N**  
JUN 25, 1977 TO/A OCT 18, 1977AIRLINE CREEK AT INLET TO  
TCHENTLO LAKE, BRITISH COLUMBIA

SUBM ID	30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	ECHANTILLONS(IND.) MINIMUM MAXIMUM MOYENNE ECART-TYPE
<b>SAMPLES(FLAGS)</b> 0301	5(4)	5(0)	4(4)	4(3)	5(3)	1(0)	2(1)	
<b>LOW</b>	<b>L.005</b>	<b>.0006</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>98.</b>	<b>L1.</b>	
<b>HIGH</b>	<b>.008</b>	<b>.0018</b>	<b>L.005</b>	<b>.06</b>	<b>.003</b>	<b>98.</b>	<b>1.</b>	
<b>AVERAGE</b>	<b>.006*</b>	<b>.0014</b>		<b>.05*</b>	<b>.001*</b>		<b>1.*</b>	
<b>STD.DEV.</b>	<b>.001*</b>	<b>.0005</b>		<b>.01*</b>	<b>.001*</b>		<b>0.*</b>	
<b>PERCNT:10TH</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.005</b>	<b>.0016</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.005</b>	<b>.0016</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>		<b>1.*</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.005</b>	<b>.0016</b>	<b>L.0027</b>	<b>.05*</b>	<b>.001</b>			<b>75<sup>e</sup></b>
<b>90TH</b>								<b>90<sup>e</sup></b>
SECONDARY CODE	05L	02L	03L		02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07ED0008 LAT. 55 D 13M 0 S LONG. 124 D 51M 0 S

UTM 10 382400E 6120200N  
JUL 24 1977 TO-A SEP 04 1977AHDATAY CREEK AT INLET TO  
TCHENTLO LAKE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L		
SAMPLES(FLAGS) 0301	2(0)	1(0)	1(0)	1(0)	1(0)	1(0)		1(0)	ECHANTILLONS(IND.)
LOW	38.	21.3	.7	7.6	26.3	6.4		.1	MINIMUM
HIGH	50.	21.3	.7	7.6	26.3	6.4		.1	MAXIMUM
AVERAGE	44.								MOYENNE
STD.DEV.	8.								ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	44.								50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED NO3 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301	1(1)	1(1)	1(1)	1(0)	1(0)	1(0)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW	L.02	L.005	L.02	.07	.009	.08	L.003	.006	MINIMUM
HIGH	L.02	L.005	L.02	.07	.009	.08	L.003	.006	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	12002E MAGNESIUM TOTAL MG MG/L	24002E CHROMIUM TOTAL CR MG/L	25004E MANGANESE TOTAL MN MG/L	26004L IRON TOTAL FE MG/L	28007L NICKEL TOTAL NI MG/L	29034L COPPER TOTAL CU MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301			3(0)	4(3)	2(2)	4(0)	4(3)	4(1)	ECHANTILLONS(IND.)
LOW			.8	L.005	L.02	.2	L.01	L.001	MINIMUM
HIGH			1.2	.017	L.02	.6	.02	.004	MAXIMUM
AVERAGE			1.0	.008*		.35	.012*	.003*	MOYENNE
STD.DEV.			.2	.006*		.17	.005*	.002*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				L.005		.25	L.010	.001*	25 <sup>e</sup>
MEDIAN 50TH			1.0	L.005	L.02	.30	L.010	.003	50 <sup>e</sup> MEDIANE
75TH				.011*		.45	.015*	.004	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			32L						CODE DE SECOURS



MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00CB07ED0008** LAT. **55 D 13 M 0 S** LONG. **124 D 51 M 0 S**

UTM **10 382400E 6120200 N**  
JUN 26, 1977 TO/À OCT 18, 1977

AH DATAY CREEK AT INLET TO  
TCHENTLO LAKE, BRITISH COLUMBIA

		30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L		
SAMPLES(FLAGS)	0301	4(3)	4(2)	4(4)	3(1)	4(1)	1(0)	2(0)	ECHANTILLONS(IND.)	
LOW		L.005	L.0005	L.0005	L.05	L.001	40.	3.	MINIMUM	
HIGH		.009	.0007	L.0005	.09	.005	40.	3.	MAXIMUM	
AVERAGE		.006*	.0005*		.07*	.003*		3.	MOYENNE	
STD.DEV.		.002*	.0001*		.02*	.002*		0.	ECART-TYPE	
PERCNT:10TH									10 <sup>e</sup> PERCNT	
25TH		L.005	L.0005	L.0005		.001*			25 <sup>e</sup>	
MEDIAN 50TH		L.005	.0005*	L.0005	.07	.002		3.	50 <sup>e</sup> MEDIANE	
75TH		.007*	.0006	L.0005		.004			75 <sup>e</sup>	
90TH									90 <sup>e</sup>	
SECONDARY CODE		05L	02L	03L		02L			CODE DE SECOURS	

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07ED0009 LAT 55 D 12 M 0 S LONG 124 D 47 M 0 S

UTM 10 386600 6118200

JUN 21, 1977 TO/A AUG 29, 1977

NATION RIVER AT TCHENTLO LAKE  
OUTLET BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL	
SUBM ID	USIE/CM	CACO3 MG/L	JTU	PH-UNITS	CACO3 MG/L	CA MG/L	MG MG/L	N MG/L	
SAMPLES(FLAGS)	0301	3(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW	74.	35.8	.3	7.9	38.6	10.4	2.4	.1	MINIMUM
HIGH	77.	36.3	.6	7.9	39.	10.4	2.5	.2	MAXIMUM
AVERAGE	76.	36.0	.5		38.8	10.40	2.5	.1	MOYENNE
STD.DEV.	2.	.4	.2		.3	.00	.1	.1	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	77.	36.0	.5	7.9	38.8	10.40	2.5	.1	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	
SAMPLES(FLAGS)	0301	2(2)	2(2)	2(0)	2(0)	2(0)	2(2)	2(0)	ECHANTILLONS(IND.)
LOW	L.02	L.005	L.02	.05	.01	.06	L.003	.004	MINIMUM
HIGH	L.02	L.005	L.02	.17	.014	.18	L.003	.005	MAXIMUM
AVERAGE				.11	.012	.12		.005	MOYENNE
STD.DEV.				.08	.003	.08		.001	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	L.02	L.005	L.020	.11	.012	.12	L.003	.005	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
SUBM ID	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS)	0301	2(0)	2(0)	4(0)	4(4)	4(3)	4(1)	4(2)	ECHANTILLONS(IND.)
LOW	5.	8.	2.4	L.005	L.02	L.01	L.01	L.001	MINIMUM
HIGH	8.	8.	2.7	L.005	.03	.2	.01	.001	MAXIMUM
AVERAGE	6.5	8.0	2.5		.02*	.10*	.010*	.001*	MOYENNE
STD.DEV.	2.1	.0	.1		.01*	.08*	.000*	.000*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			2.4	L.005	L.02	.05*	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH	6.5	8.0	2.5	L.005	L.02	.10	L.010	.001*	50 <sup>e</sup> MEDIANE
75TH			2.6	L.005	.02*	.15	.010*	.001	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02L						CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07ED0009** LAT. **55 D 12 M 0 S** LONG. **124 D 47 M 0 S**UTM **10 386600E 6118200 N**  
JUN 21, 1977 TO/A OCT 19, 1977NATION RIVER AT TCHENTLO LAKE  
OUTLET, BRITISH COLUMBIA

		30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0301	4(3)	4(1)	4(4)	4(3)	4(3)	2(0)	3(0)	ECHANTILLONS(IND.)
LOW		L.005	L.0005	L.0005	L.05	L.001	56.	1.	MINIMUM
HIGH		.008	.0008	L.0005	.08	.001	62.	1.	MAXIMUM
AVERAGE		.006*	.0007*		.06*	.001*	59.	1.	MOYENNE
STD.DEV.		.002*	.0002*		.02*	.000*	4.	0.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.005	.0005*	L.0005	L.05	L.001			25 <sup>e</sup>
MEDIAN 50TH		L.005	.0007	L.0005	L.05	L.001	59.	1.	50 <sup>e</sup> MEDIANE
75TH		.006*	.0008	L.0005	.06*	.001*			75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

03L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07ED0010 LAT. 55 D 12 M 0 S LONG. 124 D 44 M 30 S

UTM 10 389200E 6118200N  
JUN 21 1977 TO/A OCT 19 1977NATION RIVER AT INLET TO  
CHUCHI LAKE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L		
SAMPLES(FLAGS) 0301	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW	70.	32.5	.3	7.5	34.9	9.7	2.	.1	MINIMUM
HIGH	73.	34.2	.8	7.8	37.2	10.4	2.1	.2	MAXIMUM
AVERAGE	70.	34.0	.5		35.4	10.28	2.0	.1	MOYENNE
STD.DEV.	1.	.6	.2		.7	.24	.0	.0	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	70.	34.	.4	7.5	35.2	10.3	2.	.1	25 <sup>e</sup>
MEDIAN 50TH	70.	34.2	.4	7.5	35.3	10.4	2.	.1	50 <sup>e</sup> MEDIANE
75TH	70.	34.2	.6	7.8	35.3	10.4	2.	.1	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED NO3 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301	9(6)	9(9)	9(6)	7(0)	7(1)	9(0)	9(9)	9(0)	ECHANTILLONS(IND.)
LOW	L.02	L.005	L.02	.07	L.005	.08	L.003	.004	MINIMUM
HIGH	.02	L.005	.02	.15	.011	.19	L.003	.006	MAXIMUM
AVERAGE	.02*		.020*	.11	.009*	.12		.005	MOYENNE
STD.DEV.	.00*		.000*	.03	.003*	.04		.001	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.02	L.005	L.02	.07	.005	.09	L.003	.004	25 <sup>e</sup>
MEDIAN 50TH	L.02	L.005	L.02	.11	.01	.12	L.003	.005	50 <sup>e</sup> MEDIANE
75TH	.02	L.005	.02	.13	.01	.15	L.003	.006	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	12002E MAGNESIUM TOTAL MG MG/L	24002E CHROMIUM TOTAL CR MG/L	25004E MANGANESE TOTAL MN MG/L	26004L IRON TOTAL FE MG/L	28007L NICKEL TOTAL NI MG/L	29004L COPPER TOTAL CU MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301	9(0)	9(0)	9(0)	9(9)	9(8)	9(0)	9(9)	9(7)	ECHANTILLONS(IND.)
LOW	4.	6.	2.	L.005	L.02	.1	L.01	L.001	MINIMUM
HIGH	6.	8.	2.1	L.005	.03	.2	L.01	.003	MAXIMUM
AVERAGE	5.0	6.4	2.0		.02*	.12		.001*	MOYENNE
STD.DEV.	.5	.9	.0		.00*	.04		.001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	5.	6.	2.	L.005	L.02	.1	L.01	L.001	25 <sup>e</sup>
MEDIAN 50TH	5.	6.	2.	L.005	L.02	.1	L.01	L.001	50 <sup>e</sup> MEDIANE
75TH	5.	6.	2.	L.005	L.02	.1	L.01	L.001	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE							02E		CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07ED0010** LAT. **55 D 12 M 0 S** LONG. **124 D 44 M 30 S**UTM **10 389200E 6118200 N**  
JUN 21, 1977 TO/À OCT 19, 1977NATION RIVER AT INLET TO  
CHUCHI LAKE, BRITISH COLUMBIA

		30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0301	9(8)	9(2)	8(8)	9(7)	9(8)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW		L.005	L.0005	L.0005	L.00	L.001	50.	1.	MINIMUM
HIGH		.005	.0014	L.0005	.08	.002	58.	2.	MAXIMUM
AVERAGE		.005*	.0008*		.05*	.001*	56.	2.	MOYENNE
STD.DEV.		.000*	.0003*		.02*	.000*	3.	1.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.005	.0006	L.0005	L.05	L.001	54.	1.	25 <sup>e</sup>
MEDIAN 50TH		L.005	.0008	L.0005	L.05	L.001	56.	2.	50 <sup>e</sup> MEDIANE
75TH		L.005	.0009	L.0005	L.05	L.001	58.	2.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		05L	02L	03L		02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07ED0011 LAT 55 D 12 M 30 LONG 124 D 45 M 0 Y

ITEM 10 388600 6119200

JUN 21 1977 TO/A OCT 19 1977

KLAUW RIVER AT INLET TO  
CHUCHI LAKE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL	
SUBM ID	USIE / CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L	N MG/L	
SAMPLES(FLAGS)	0301	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW		49.	20.6	.4	7.1	23.3	7.	.8	MINIMUM
HIGH		66.	31.3	2.	7.6	33.9	10.4	1.3	MAXIMUM
AVERAGE		63.	29.2	.6	31.1	9.74	1.2	.1	MOYENNE
STD.DEV.		6.	3.7	.5	3.7	1.15	.2	.0	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		65.	29.4	.4	7.1	32.6	9.8	1.2	25 <sup>e</sup>
MEDIAN 50TH		66.	31.1	.4	7.1	32.8	10.3	1.3	50 <sup>e</sup> MEDIANE
75TH		66.	31.3	.6	7.4	32.9	10.4	1.3	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	
SUBM ID	NO3 MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P04 MG/L	P MG/L	
SAMPLES(FLAGS)	0301	9(9)	9(9)	9(0)	9(0)	9(0)	9(9)	9(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	.03	.005	L.003	.003	MINIMUM
HIGH		L.02	L.005	L.02	.14	.008	L.003	.007	MAXIMUM
AVERAGE				.07	.007	.08		.005	MOYENNE
STD.DEV.				.03	.001	.03		.001	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.02	L.005	L.02	.05	.006	L.003	.004	25 <sup>e</sup>
MEDIAN 50TH		L.02	L.005	L.02	.07	.007	L.003	.005	50 <sup>e</sup> MEDIANE
75TH		L.02	L.005	L.02	.09	.007	L.003	.005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
SUBM ID	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS)	0301	9(0)	9(0)	9(8)	9(7)	9(0)	9(9)	9(3)	ECHANTILLONS(IND.)
LOW		3.	4.	.8	L.005	L.02	.1	L.01	MINIMUM
HIGH		6.	8.	1.3	.006	.02	.5	L.01	MAXIMUM
AVERAGE		3.9	6.6	1.2	.005	.02	.18	.002	MOYENNE
STD.DEV.		1.4	1.2	.2	.000	.00	.14	.001	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		3.	7.	1.2	L.005	L.02	.1	L.01	25 <sup>e</sup>
MEDIAN 50TH		3.	7.	1.3	L.005	L.02	.1	L.01	50 <sup>e</sup> MEDIANE
75TH		5.	7.	1.3	L.005	L.02	.2	L.01	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02L	04L	04L		02E	05L	CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07ED0011** LAT. **55 D 12 M 30 S** LONG. **124 D 45 M 0 S**UTM **10 388600E 6119200 N**

JUN 21, 1977 TO/A OCT 19, 1977

KLAWLI RIVER AT INLET TO  
CHUCHI LAKE, BRITISH COLUMBIA

	30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
SUBM ID								
0301	9(8)	9(3)	9(8)	9(7)	9(5)	9(0)	9(0)	ECHANTILLONS(IND.)
	L.005	L.0005	L.0005	L.05	L.001	42.	1.	MINIMUM
	.005	.0016	.0006	.06	.003	58.	9.	MAXIMUM
	.005*	.0009*	.0005*	.05*	.002*	48.	2.	MOYENNE
	.000*	.0004*	.0000*	.00*	.001*	5.	3.	ECART-TYPE
	L.005	L.0005	L.0005	L.05	L.001	46.	1.	10 <sup>e</sup> PERCNT
	L.005	.001	L.0005	L.05	L.001	48.	2.	25 <sup>e</sup>
	L.005	.0011	L.0005	L.05	.003	48.	2.	50 <sup>e</sup> MEDIANE
								75 <sup>e</sup>
								90 <sup>e</sup>
	05L	02L	03L	13L	02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07ED0012 LAT. 55 D 9 M 0 S LONG. 124 D 23 M 30 S

UTM 10 411400E 6112200 N  
JUN 21 1977 TO/A OCT 19 1977WITCH CREEK AT INLET TO  
CHUCHI LAKE BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07601E NITROGEN TOTAL KJELDAHL N	
	SUBM ID	USIE- CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L	MG L	
SAMPLES(FLAGS)	0301	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW		91.	43.8	.3	7.7	44.4	13.7	2.2	.1	MINIMUM
HIGH		97.	47.	1.2	8.	46.8	15.2	2.4	.2	MAXIMUM
AVERAGE		94.	45.1	.6		45.8	14.21	2.3	.2	MOYENNE
STD.DEV.		2.	1.1	.3		.9	.47	.1	.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		93.	44.3	.5	7.7	45.3	13.9	2.3	.1	25 <sup>e</sup>
MEDIAN 50TH		95.	44.8	.6	7.7	45.7	14.	2.4	.2	50 <sup>e</sup> MEDIANE
75TH		96.	46.1	.6	8.	46.5	14.5	2.4	.2	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			03E							CODE DE SECOURS

		07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL	
	SUBM ID	NO3 MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	MG/L	P MG/L	
SAMPLES(FLAGS)	0301	9(3)	9(9)	9(4)	9(0)	9(0)	9(0)	9(9)	9(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	.12	.007	.15	L.003	.005	MINIMUM
HIGH		.02	L.005	.02	.2	.013	.21	L.003	.007	MAXIMUM
AVERAGE		.02*		.020*	.14	.011	.17		.006	MOYENNE
STD.DEV.		.00*		.000*	.02	.002	.02		.001	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.02	L.005	L.02	.13	.011	.15	L.003	.006	25 <sup>e</sup>
MEDIAN 50TH		.02	L.005	.02	.14	.012	.17	L.003	.006	50 <sup>e</sup> MEDIANE
75TH		.02	L.005	.02	.14	.013	.17	L.003	.007	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
	SUBM ID	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS)	0301	9(0)	9(0)	9(0)	9(9)	9(9)	9(1)	9(9)	9(3)	ECHANTILLONS(IND.)
LOW		4.	7.	2.2	L.005	L.02	L.1	L.01	L.001	MINIMUM
HIGH		7.	10.	2.4	L.005	L.02	.1	L.01	.003	MAXIMUM
AVERAGE		6.0	9.6	2.3			.10*		.002*	MOYENNE
STD.DEV.		.9	1.0	.1			.00*		.001*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		6.	10.	2.3	L.005	L.02	.1	L.01	L.001	25 <sup>e</sup>
MEDIAN 50TH		6.	10.	2.4	L.005	L.02	.1	L.01	.002	50 <sup>e</sup> MEDIANE
75TH		6.	10.	2.4	L.005	L.02	.1	L.01	.002	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				02L	04L	04L		02E	05L	CODE DE SECOURS

MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB-BASIN

STATION **00CB07ED0012** LAT. **55 D 9 M 0 S** LONG. **124 D 23 M 30 S**

UTM **10 411400 E 6112200 N**  
JUN 21, 1977 TO/À OCT 19, 1977

WITCH CREEK AT INLET TO  
CHUCHI LAKE, BRITISH COLUMBIA

		30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0301	9(8)	9(4)	9(8)	9(7)	9(3)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW		L.005	L.0005	L.0005	L.05	L.001	70.	2.	MINIMUM
HIGH		.006	.0009	.0005	.15	.003	80.	3.	MAXIMUM
AVERAGE		.005*	.0006*	.0005*	.06*	.002*	77.	2.	MOYENNE
STD.DEV.		.000*	.0002*	.0000*	.03*	.001*	3.	1.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.005	L.0005	L.0005	L.05	L.001	76.	2.	25 <sup>e</sup>
MEDIAN 50TH		L.005	.0005	L.0005	L.05	.002	78.	2.	50 <sup>e</sup> MEDIANE
75TH		L.005	.0008	L.0005	L.05	.002	78.	3.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		05L	02L	03L	13L	02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00CB07ED0013 LAT 55° 12' 0" S LONG 124° 23' 30" W

JTM 10 411400E 6117800N

JUN 21 1977 TO/A OCT 19 1977

NATION RIVER AT OUTLET FROM  
CHUCHI LAKE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL	
SUBM ID	USIE/CM	CACO3 MG/L	JTU	PH-UNITS	CACO3 MG/L	CA MG/L	MG MG/L	N MG/L	
SAMPLES(FLAGS) 0301	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW	68.	30.6	.2	7.4	33.3	9.3	1.8	.1	MINIMUM
HIGH	69.	33.7	8.2	7.9	34.5	10.3	2.	.3	MAXIMUM
AVERAGE	68.	33.0	1.4		34.2	10.02	1.9	.1	MOYENNE
STD.DEV.	0.	1.2	2.6		.4	.38	.1	.1	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	68.	33.1	.5	7.5	34.2	10.2	1.9	.1	25 <sup>e</sup>
MEDIAN 50TH	68.	33.7	.5	7.5	34.3	10.2	2.	.1	50 <sup>e</sup> MEDIANE
75TH	68.	33.7	.7	7.8	34.4	10.2	2.	.2	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	
SUBM ID	NO3 MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	
SAMPLES(FLAGS) 0301	9(3)	9(9)	9(3)	9(0)	9(1)	9(0)	9(9)	9(0)	ECHANTILLONS(IND.)
LOW	L.02	L.005	L.02	.09	L.005	.11	L.003	.004	MINIMUM
HIGH	.02	L.005	.02	.3	.016	.3	L.003	.023	MAXIMUM
AVERAGE	.02*		.020*	.14	.010*	.16		.007	MOYENNE
STD.DEV.	.00*		.000*	.07	.003*	.06		.006	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.02	L.005	L.02	.1	.01	.13	L.003	.005	25 <sup>e</sup>
MEDIAN 50TH	.02	L.005	.02	.12	.011	.15	L.003	.005	50 <sup>e</sup> MEDIANE
75TH	.02	L.005	.02	.15	.012	.18	L.003	.006	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
SUBM ID	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS) 0301	9(0)	9(0)	9(0)	9(7)	9(8)	9(5)	9(9)	9(6)	ECHANTILLONS(IND.)
LOW	5.	6.	1.8	L.005	L.02	L.1	L.01	L.001	MINIMUM
HIGH	8.	7.	2.	.01	.04	1.1	L.01	.002	MAXIMUM
AVERAGE	5.6	6.2	1.9	.006*	.02*	.22*		.001*	MOYENNE
STD.DEV.	1.1	.4	.1	.002*	.01*	.33*		.000*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	5.	6.	1.9	L.005	L.02	L.1	L.01	L.001	25 <sup>e</sup>
MEDIAN 50TH	5.	6.	2.	L.005	L.02	L.1	L.01	L.001	50 <sup>e</sup> MEDIANE
75TH	5.	6.	2.	L.005	L.02	.1	L.01	.001	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02L	04L	04L		02E	05L	CODE DE SECOURS



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07ED0013** LAT. **55 D 12 M 0 S** LONG. **124 D 23 M 30 S**UTM **10 411400E 6117800 N**  
JUN 21, 1977 TO/À OCT 19, 1977NATION RIVER AT OUTLET FROM  
CHUCHI LAKE, BRITISH COLUMBIA

	30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS) 0301	8(8)	9(5)	9(9)	8(7)	9(7)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW	L.005	L.0005	L.0005	L.05	L.001	54.	1.	MINIMUM
HIGH	L.005	.0007	L.005	.06	.002	90.	38.	MAXIMUM
AVERAGE		.0005*		.05*	.001*	59.	6.	MOYENNE
STD.DEV.		.0001*		.00*	.000*	12.	12.	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	L.005	L.0005	L.0005	L.05	L.001	54.	1.	25 <sup>e</sup>
MEDIAN 50TH	L.005	L.0005	L.0005	L.05	L.001	56.	2.	50 <sup>e</sup> MEDIANE
75TH	L.005	.0005	L.005	L.05	L.001	58.	2.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE	05L	02L	03L		02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

00CB07EE0001

LAT 55 D 17 M 35 S LONG 122 D 37 M 10 S

UTM 10 524200 6127200  
MAY 25 1977 TO/A MAY 29 1978SUMMIT LAKE TRIB. D/S FROM SUMMIT LAKE  
DUMP SITE NEAR HWY 97 NORTH

		02041L SPECIFIC CONDUCT.	10603E HARDNESS TOTAL CaCO3 MG/L	02021L COLOUR TRUE REL UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CaCO3 MG/L	10402L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	
SAMPLES(FLA)	SUBM ID	USIE CM								ECHANTILLONS(IND.)
LOW	0301	4(0)	2(0)	1(0)	2(0)	4(0)	2(0)	3(0)	3(0)	MINIMUM
HIGH		25.	22.7	80.	1.8	6.2	15.9	3.	52.	MAXIMUM
AVERAGE		45.	174.	80.	1.8	7.2	21.4	7.	94.	MOYENNE
STD.DEV.		36.	98.3		1.8		18.6	5.	73.	ECART-TYPE
		9.	107.0		.0		3.9	2.	21.	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		29.				6.5				25 <sup>e</sup>
MEDIAN 50TH		37.	98.3		1.8	6.8	18.6	5.	74.	50 <sup>e</sup> MEDIANE
75TH		44.				7.0				75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	
SAMPLES(FLA)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	4(0)	4(1)	2(1)	2(0)	2(0)	2(0)	3(1)	4(0)	MINIMUM
HIGH		.31	L.02	L.005	.05	.52	.014	L.003	.017	MAXIMUM
AVERAGE		.64	.19	.005	.18	.63	.031	.006	.029	MOYENNE
STD.DEV.		.53	.075*	.005*	.115	.58	.023	.004*	.022	ECART-TYPE
		.15	.078*	.000*	.092	.08	.012	.002*	.005	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.43	.030*						.018	25 <sup>e</sup>
MEDIAN 50TH		.59	.045	.005*	.115	.58	.023	.004	.020	50 <sup>e</sup> MEDIANE
75TH		.63	.120						.026	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	06551L TANNIN AND LIGNIN LIG.SULPH. MG/L	20103L CALCIUM DISSOLVED CA MG/L	12002L MAGNESIUM TOTAL MG MG/L	12102E MAGNESIUM DISSOLVED MG MG/L	17206L CHLORIDE DISSOLVED CL MG/L	05102L BORON DISSOLVED B MG/L	
SAMPLES(FLA)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	1(0)	1(0)	1(0)	2(0)	2(0)	2(0)	4(2)	1(1)	MINIMUM
HIGH		22.	5.0	2.6	6.6	1.7	1.5	L.5	L.1	MAXIMUM
AVERAGE		22.	5.0	2.6	56.	8.2	8.2	2.3	L.1	MOYENNE
STD.DEV.					31.30	5.0	4.8	1.1*		ECART-TYPE
					34.93	4.6	4.7	.9*		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH								L.5		25 <sup>e</sup>
MEDIAN 50TH					31.30	5.0	4.8	.7*		50 <sup>e</sup> MEDIANE
75TH								1.7		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07EE0001** LAT. **55 D 17 M 35 S** LONG. **122 D 37 M 10 S**UTM **10 524200E 6127200 N**  
MAY 25, 1977 TO/À MAY 29, 1978SUMMIT LAKE TRIB. D/S FROM SUMMIT LAKE  
DUMP SITE NEAR HWY 97 NORTH

		24004L CHROMIUM TOTAL CR MG/L	25004L MANGANESE TOTAL MN MG/L	26004L IRON TOTAL FE MG/L	28002E NICKEL TOTAL NI MG/L	29005L COPPER TOTAL CU MG/L	30004L ZINC TOTAL ZN MG/L	42002L MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	
SAMPLES(FLAGS)	0301	1(1)	2(0)	3(0)	2(1)	4(0)	3(0)	2(1)	1(1)	ECHANTILLONS(IND.)
LOW		L.005	.05	.2	L.01	.003	.008	L.0005	L.0005	MINIMUM
HIGH		L.005	.1	.7	.01	.003	.01	.005	L.0005	MAXIMUM
AVERAGE			.08	.43	.010*	.003	.009	.0027*		MOYENNE
STD.DEV.			.04	.25	.000*	.000	.001	.0032*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH						.003				25 <sup>e</sup>
MEDIAN 50TH			.08	.4	.010*	.003	.008	.0027*		50 <sup>e</sup> MEDIANE
75TH						.003				75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE							05L			CODE DE SECOURS

		82002L LEAD TOTAL PB MG/L	36000E COLIFORMS TOTAL MPN NO./ML	36010E COLIFORMS FECAL MF NO./ML	
SAMPLES(FLAGS)	0301	4(1)	1(0)	1(1)	ECHANTILLONS(IND.)
LOW		L.001	20.	L20.	MINIMUM
HIGH		.002	20.	L20.	MAXIMUM
AVERAGE		.002*			MOYENNE
STD.DEV.		.001*			ECART-TYPE
PERCNT:10TH					10 <sup>e</sup> PERCNT
25TH		.001*			25 <sup>e</sup>
MEDIAN 50TH		.002			50 <sup>e</sup> MEDIANE
75TH		.002			75 <sup>e</sup>
90TH					90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07EE0002 LAT. 54 D 17 M 35 S LONG. 122 D 37 M 10 S

UTM 10 524800 6016000 N  
MAY 25 1977 TO/A MAY 29 1978SUMMIT LAKE TRIBUTARY UPSTREAM FROM  
SUMMIT LAKE DUMP SITE AT ROAD CULVERT

	02041L SPECIFIC CONDUCT.	10603E HARDNESS TOTAL CACO3	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL CACO3	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	
SUBM ID	USIE CM	MG/L	REL. UNITS	JTU	PH UNITS	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301	4(0)	2(0)	1(0)	4(0)	2(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		26.	20.7	1.3	6.5	15.1	2.	60.	MINIMUM
HIGH		41.	21.9	1.3	7.1	20.7	9.	92.	MAXIMUM
AVERAGE		36.	21.3			17.9	6.	76.	MOYENNE
STD.DEV.		7.	.8			4.0	4.	16.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		32.			6.7				25 <sup>e</sup>
MEDIAN 50TH		39.	21.3		6.8	17.9	8.	76.	50 <sup>e</sup> MEDIANE
75TH		41.			6.9				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	
SAMPLES(FLAGS)	0301	4(0)	4(0)	2(1)	2(0)	2(0)	3(1)	4(0)	ECHANTILLONS(IND.)
LOW		.42	.02	L.005	.03	.42	L.003	.012	MINIMUM
HIGH		.7	.33	.007	.32	.55	.035	.028	MAXIMUM
AVERAGE		.54	.108	.006*	.175	.49	.026	.022	MOYENNE
STD.DEV.		.13	.149	.001*	.205	.09	.013	.002*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.43	.025					.017	25 <sup>e</sup>
MEDIAN 50TH		.51	.040	.006*	.175	.49	.026	.004	50 <sup>e</sup> MEDIANE
75TH		.64	.190					.028	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	06551L TANNIN AND LIGNIN	20103L CALCIUM DISSOLVED	12002L MAGNESIUM TOTAL	12102E MAGNESIUM DISSOLVED	17206L CHLORIDE DISSOLVED	05102L BORON DISSOLVED	
SUBM ID	C MG/L	C MG/L	LIG. SULPH MG/L	CA MG/L	MG MG/L	MG MG/L	CL MG/L	B MG/L	
SAMPLES(FLAGS)	0301	1(0)	1(0)	1(0)	2(0)	2(0)	4(0)	1(1)	ECHANTILLONS(IND.)
LOW		22.	6.	2.8	6.	1.5	.5	L.1	MINIMUM
HIGH		22.	6.	2.8	6.3	1.6	1.5	L.1	MAXIMUM
AVERAGE					6.15	1.5	1.0		MOYENNE
STD.DEV.					.21	.1	.5		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH							6		25 <sup>e</sup>
MEDIAN 50TH					6.15	1.5	1.0		50 <sup>e</sup> MEDIANE
75TH							1.4		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00CB07EE0002** LAT. **54 D 17 M 35 S** LONG. **122 D 37 M 10 S**

UTM **10 524800E 6016000 N**  
MAY 25, 1977 TO/À MAY 29, 1978

SUMMIT LAKE TRIBUTARY, UPSTREAM FROM  
SUMMIT LAKE DUMP SITE AT ROAD CULVERT

		24004L CHROMIUM TOTAL CR MG/L	25004L MANGANESE TOTAL MN MG/L	26004L IRON TOTAL FE MG/L	28002E NICKEL TOTAL NI MG/L	29005L COPPER TOTAL CU MG/L	30004L ZINC TOTAL ZN MG/L	42002L MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	
SAMPLES(FLAGS)	0301	1(1)	1(0)	4(0)	2(2)	4(1)	4(1)	2(2)	1(1)	ECHANTILLONS(IND.)
LOW		L.005	.03	.4	L.01	L.001	L.005	L.0005	L.0005	MINIMUM
HIGH		L.005	.03	.6	L.01	.01	.02	L.0005	L.0005	MAXIMUM
AVERAGE				.48		.004*	.009*			MOYENNE
STD.DEV.				.10		.004*	.008*			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				.40		.001*	.005*			25 <sup>e</sup>
MEDIAN 50TH				.45	L.010	.002	.005	L.0005		50 <sup>e</sup> MEDIANE
75TH				.55		.006	.013			75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE							05L			CODE DE SECOURS

		82002L LEAD TOTAL PB MG/L	36000E COLIFORMS TOTAL MPN NO/ML	36010E COLIFORMS FECAL MF NO/ML	
SAMPLES(FLAGS)	0301	4(2)	1(1)	1(1)	ECHANTILLONS(IND.)
LOW		L.001	L20.	L20.	MINIMUM
HIGH		.007	L20.	L20.	MAXIMUM
AVERAGE		.003*			MOYENNE
STD.DEV.		.003*			ECART-TYPE
PERCNT:10TH					10 <sup>e</sup> PERCNT
25TH		L.001			25 <sup>e</sup>
MEDIAN 50TH		.001*			50 <sup>e</sup> MEDIANE
75TH		.005			75 <sup>e</sup>
90TH					90 <sup>e</sup>
SECONDARY CODE					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07EF0001 LAT. 56 D 1M 10 S LONG. 121 D 53M 55 S

UTM 10 568600: 6208600 N  
OCT 31 1968 TO A APR 11 1974PEACE RIVER AT FERRY CROSSING  
HUDSON HOPE BRITISH COLUMBIA

		02041F SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10432L ALKALINITY TOTAL CACO3 MG/L	00215L SATURATION INDEX (CALCD) PH UNITS	
SAMPLES(FLAGS)	0301	9(0)	1(0)	10(0)	12(0)	12(0)	8(0)	12(0)		ECHANTILLONS(IND.)
LOW		171.	101.	87.1	5.	.5	7.7	80.		MINIMUM
HIGH		197.	101.	122.	40.	24.	8.2	112.		MAXIMUM
AVERAGE		186.		96.3	12.	3.8		88.3		MOYENNE
STD.DEV.		9.		10.0	9.	6.6		8.2		ECART-TYPE
PERCNT:10TH				87.5	5.	.5		82.		10 <sup>e</sup> PERCNT
25TH		181.		88.2	9.	.8	7.8	83.5		25 <sup>e</sup>
MEDIAN 50TH		187.		94.8	10.	1.2	8.0	87.0		50 <sup>e</sup> MEDIANE
75TH		193.		98.2	10.	3.9	8.0	89.0		75 <sup>e</sup>
90TH				110.3	20.	5.9		92.		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102E MAGNESIUM DISSOLVED MG MG/L	06302L CARBONATE DISSOLVED CO3 MG/L	06202L BICARBONATE LAB CALC. HC03 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301	12(0)	12(0)	12(0)	12(0)	11(0)	11(0)	3(0)	11(0)	ECHANTILLONS(IND.)
LOW		.5	1.	20.2	5.	0.	97.	.1	8.4	MINIMUM
HIGH		6.9	2.	33.9	9.1	0.	137.	.4	11.1	MAXIMUM
AVERAGE		1.1	1.3	28.1	6.3	0.	107.	.3	9.5	MOYENNE
STD.DEV.		1.8	.3	3.4	1.4	0.	11.	.2	.8	ECART-TYPE
PERCNT:10TH		.5	1.1	26.	5.2	0.	100.		8.7	10 <sup>e</sup> PERCNT
25TH		.6	1.1	26.8	5.5	0.	101.		9.1	25 <sup>e</sup>
MEDIAN 50TH		.6	1.2	28.1	5.8	0.	104.	.4	9.5	50 <sup>e</sup> MEDIANE
75TH		.8	1.4	30.1	6.3	0.	108.		9.7	75 <sup>e</sup>
90TH		.8	1.5	31.2	9.1	0.	109.		10.5	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

		06402L CO2 DISSOLVED MG/L	09105L FLUORIDE DISSOLVED F MG/L	07103L NITRATE & NITRITE DISSOLVED NO3 MG/L	14102L SILICA REACTIVE SIO2 MG/L	08102F OXYGEN DISSOLVED DO MG/L	29306L COPPER EXTRBL. CU MG/L	10451L RESIDUE FILTERABLE MG/L	
SAMPLES(FLAGS)	0301	1(0)	2(0)	2(0)	1(0)	3(0)	3(2)	1(0)	ECHANTILLONS(IND.)
LOW		1.4	.06	.01	4.2	12.	L.00	147.	MINIMUM
HIGH		1.4	.07	.04	4.2	13.	.00	147.	MAXIMUM
AVERAGE			.07	.02		12.7	.00*		MOYENNE
STD.DEV.			.01	.02		.6	.00*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH			.07	.02		13.	L.00		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FA0001** LAT. **56 D 12 M 35 S** LONG. **120 D 51 M 20 S**UTM **10 633000E 6231200 N**  
NOV 19, 1971 TO/À OCT 22, 1974PEACE RIVER TWO MILES UPSTREAM FROM  
FORT ST. JOHN SANITARY DISCHARGE SITE

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID		USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>6(0)</b>	<b>3(2)</b>	<b>10(0)</b>	<b>10(1)</b>	<b>10(0)</b>	<b>7(0)</b>	<b>8(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>166.</b>	<b>104.</b>	<b>81.3</b>	<b>L5.</b>	<b>1.3</b>	<b>7.9</b>	<b>80.</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>206.</b>	<b>Q116.</b>	<b>108.</b>	<b>100.</b>	<b>160.</b>	<b>8.2</b>	<b>109.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>188.</b>	<b>110.*</b>	<b>96.6</b>	<b>24.*</b>	<b>47.8</b>		<b>93.0</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>13.</b>	<b>6.*</b>	<b>8.5</b>	<b>30.*</b>	<b>56.8</b>		<b>9.0</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				<b>86.1</b>	<b>5.*</b>	<b>4.2</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>186.</b>		<b>91.1</b>	<b>5.</b>	<b>8.7</b>	<b>7.9</b>	<b>87.5</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>187.</b>	<b>Q109.</b>	<b>95.4</b>	<b>10.</b>	<b>21.0</b>	<b>8.</b>	<b>91.8</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>193.</b>		<b>105.</b>	<b>30.</b>	<b>62.</b>	<b>8.1</b>	<b>98.3</b>		<b>75<sup>e</sup></b>
<b>90TH</b>				<b>107.5</b>	<b>75.</b>	<b>148.0</b>				<b>90<sup>e</sup></b>
SECONDARY CODE				03E	21E					CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>6(0)</b>	<b>7(0)</b>	<b>8(0)</b>	<b>9(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>8(4)</b>	<b>9(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.3</b>	<b>1.1</b>	<b>24.8</b>	<b>4.7</b>	<b>0.</b>	<b>98.</b>	<b>.3</b>	<b>7.8</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.7</b>	<b>2.3</b>	<b>31.2</b>	<b>7.2</b>	<b>0.</b>	<b>133.</b>	<b>1.1</b>	<b>12.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.5</b>	<b>1.4</b>	<b>28.10</b>	<b>6.2</b>	<b>0.</b>	<b>112.</b>	<b>.5*</b>	<b>10.4</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.2</b>	<b>.4</b>	<b>2.14</b>	<b>.8</b>	<b>0.</b>	<b>12.</b>	<b>.2*</b>	<b>1.4</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.3</b>	<b>1.2</b>	<b>26.80</b>	<b>5.7</b>	<b>0.</b>	<b>105.</b>	<b>.4*</b>	<b>9.8</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.6</b>	<b>1.3</b>	<b>27.90</b>	<b>6.1</b>	<b>0.</b>	<b>109.</b>	<b>L.5</b>	<b>10.2</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.6</b>	<b>1.5</b>	<b>29.70</b>	<b>6.8</b>	<b>0.</b>	<b>116.</b>	<b>.5*</b>	<b>11.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE		01L	01L	01L	02E			01L		CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>7(0)</b>	<b>4(0)</b>	<b>7(7)</b>	<b>10(1)</b>	<b>3(0)</b>	<b>1(1)</b>	<b>4(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.0</b>	<b>.03</b>	<b>L.005</b>	<b>L.02</b>	<b>.2</b>	<b>L.01</b>	<b>.2</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.8</b>	<b>.12</b>	<b>L.005</b>	<b>.12</b>	<b>.3</b>	<b>L.01</b>	<b>.38</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.4</b>	<b>.060</b>		<b>.047*</b>	<b>.2</b>		<b>.30</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.3</b>	<b>.041</b>		<b>.030*</b>	<b>.1</b>		<b>.08</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					<b>.020*</b>					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.2</b>	<b>.035</b>	<b>L.005</b>	<b>.03</b>			<b>.23</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.4</b>	<b>.045</b>	<b>L.005</b>	<b>.040</b>	<b>.2</b>		<b>.31</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.6</b>	<b>.085</b>	<b>L.005</b>	<b>.05</b>			<b>.37</b>		<b>75<sup>e</sup></b>
<b>90TH</b>					<b>.095</b>					<b>90<sup>e</sup></b>
SECONDARY CODE					01L					CODE DE SECOURS

\* These statistics include flagged values./Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FA0001 LAT. 56 D 12 M 35 S LONG. 120 D 51 M 20 S

UTM 10 633000E 6231200 N  
NOV 19 1971 TO A OCT 22 1974PEACE RIVER TWO MILES UPSTREAM FROM  
FORT ST. JOHN SANITARY DISCHARGE SITE

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	10(0)	6(0)	8(1)		6(0)	8(8)	7(6)	1(0)	ECHANTILLONS(IND.)
LOW	.01	3.4	L1.		9.6	L.005	L.01	.02	MINIMUM
HIGH	.303	4.2	15.		13.4	L.005	L.02	.02	MAXIMUM
AVERAGE	.071	3.8	8.5*		11.2		.01*		MOYENNE
STD.DEV.	.096	.3	5.7*		1.6		.00*		ECART-TYPE
PERCNT:10TH	.010								10 <sup>e</sup> PERCNT
25TH	.013	3.6	3.5		9.8	L.0050	L.01		25 <sup>e</sup>
MEDIAN 50TH	.020	3.7	8.0		10.8	L.0050	L.01		50 <sup>e</sup> MEDIANE
75TH	.122	3.9	14.5		13.	L.0050	L.02		75 <sup>e</sup>
90TH	.230								90 <sup>e</sup>
SECONDARY CODE	06L	07L	01E			53E 53L 52E		04E	CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
SAMPLES(FLAGS) 0301	7(6)	1(1)	1(1)	5(4)	8(5)		5(3)		ECHANTILLONS(IND.)
LOW	L.02	L.02	L.01	L.001	L.005		L.001		MINIMUM
HIGH	.14	L.02	L.01	.002	.1		.001		MAXIMUM
AVERAGE	.069*			.001*	.018*		.001*		MOYENNE
STD.DEV.	.045*			.000*	.033*		.000*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.04			L.001	L.005		L.001		25 <sup>e</sup>
MEDIAN 50TH	L.04			L.001	L.005		L.001		50 <sup>e</sup> MEDIANE
75TH	L.1			L.001	.008		.001		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L 03L	06L	02E	07L	07L 04E 05E		04L		CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO./ML	MPN NO./ML	
SAMPLES(FLAGS) 0301		7(1)		7(6)	9(0)	1(0)	7(1)	9(0)	ECHANTILLONS(IND.)
LOW		L.1		0.	10.	136.	L2.	8.	MINIMUM
HIGH		1.		L.03	770.	136.	130.	350.	MAXIMUM
AVERAGE		.39*		.03*	155.4		26.*	61.	MOYENNE
STD.DEV.		.32*		.01*	249.5		47.*	109.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.1		L.03	14.9		2.	22.	25 <sup>e</sup>
MEDIAN 50TH		.3		L.03	31.		8.	33.	50 <sup>e</sup> MEDIANE
75TH		.5		L.03	143.		20.	33.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				01E	02E				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FA0002** LAT. **56 D 12 M 30 S** LONG. **120 D 51 M 20 S**UTM **10 633000E 6231200 N**  
NOV 19, 1971 TO/À OCT 22, 1974PEACE RIVER TWO MILES UPSTREAM FROM  
FORT ST. JOHN SANITARY DISCHARGE SITE

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>3(0)</b>	<b>1(1)</b>	<b>9(0)</b>	<b>9(1)</b>	<b>9(0)</b>	<b>6(0)</b>	<b>7(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>166.</b>	<b>Q103.</b>	<b>82.5</b>	<b>L5.</b>	<b>1.9</b>	<b>7.9</b>	<b>80.</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>184.</b>	<b>Q103.</b>	<b>104.</b>	<b>60.</b>	<b>110.</b>	<b>8.3</b>	<b>102.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>174.</b>		<b>91.9</b>	<b>16.*</b>	<b>27.9</b>		<b>88.1</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>9.</b>		<b>7.2</b>	<b>18.*</b>	<b>36.0</b>		<b>7.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				<b>85.5</b>	<b>5.</b>	<b>5.6</b>	<b>7.9</b>	<b>80.2</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>173.</b>		<b>90.2</b>	<b>10.</b>	<b>7.5</b>	<b>8.0</b>	<b>87.5</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				<b>96.6</b>	<b>20.</b>	<b>30.</b>	<b>8.1</b>	<b>90.5</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>7(0)</b>	<b>5(0)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>8(5)</b>	<b>5(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.4</b>	<b>1.1</b>	<b>24.8</b>	<b>5.</b>	<b>0.</b>	<b>98.</b>	<b>0.</b>	<b>7.8</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.7</b>	<b>1.4</b>	<b>29.6</b>	<b>6.6</b>	<b>0.</b>	<b>124.</b>	<b>.9</b>	<b>12.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.6</b>	<b>1.2</b>	<b>26.94</b>	<b>5.7</b>	<b>0.</b>	<b>107.</b>	<b>.5*</b>	<b>9.8</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.1</b>	<b>.1</b>	<b>2.00</b>	<b>.5</b>	<b>0.</b>	<b>9.</b>	<b>.3*</b>	<b>1.6</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.5</b>	<b>1.1</b>	<b>25.00</b>	<b>5.5</b>	<b>0.</b>	<b>98.</b>	<b>L.4</b>	<b>8.9</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.6</b>	<b>1.2</b>	<b>26.55</b>	<b>5.5</b>	<b>0.</b>	<b>107.</b>	<b>L.5</b>	<b>10.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.6</b>	<b>1.3</b>	<b>29.00</b>	<b>6.0</b>	<b>0.</b>	<b>110.</b>	<b>.5*</b>	<b>10.2</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE		01L	01L	01L	02E			01L		CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>5(0)</b>	<b>3(0)</b>	<b>5(3)</b>	<b>8(0)</b>	<b>2(0)</b>		<b>3(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.1</b>	<b>.03</b>	<b>L.005</b>	<b>.02</b>	<b>.2</b>		<b>.22</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.5</b>	<b>.11</b>	<b>.005</b>	<b>.11</b>	<b>.2</b>		<b>.37</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.3</b>	<b>.063</b>	<b>.005*</b>	<b>.055</b>	<b>.2</b>		<b>.28</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.2</b>	<b>.042</b>	<b>.000*</b>	<b>.030</b>	<b>.0</b>		<b>.08</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.2</b>		<b>L.005</b>	<b>.035</b>					<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.2</b>	<b>.05</b>	<b>L.005</b>	<b>.045</b>	<b>.2</b>		<b>.25</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.3</b>		<b>.005</b>	<b>.075</b>					<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE					01L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 1979

PEACE RIVER SUB BASIN

STATION 00CB07FA0002 LAT. 56 D 12M 30 S LONG. 120 D 51M 20 S

UTM 10 633000E 6231200 N  
NOV 19 1971 TO: A OCT 22 1974

PEACE RIVER TWO MILES UPSTREAM FROM  
FORT ST. JOHN SANITARY DISCHARGE SITE

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	04104L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	M	MG/L	MG/L	M	M	M	
SAMPLES(FLAGS) 0301	10(1)	6(0)	8(0)		6(0)	7(7)	6(6)	1(0)	ECHANTILLONS(IND.)
LOW	L.003	3.4	1.		9.4	L.005	L.01	.02	MINIMUM
HIGH	.14	12.	11.		13.2	L.005	L.02	.02	MAXIMUM
AVERAGE	.042*	5.1	5.8		11.0				MOYENNE
STD.DEV.	.045*	3.4	3.8		1.5				ECART-TYPE
PERCNT:10TH	.005*								10 <sup>e</sup> PERCNT
25TH	.015	3.6	2.5		9.7	L.005	L.01		25 <sup>e</sup>
MEDIAN 50TH	.019	3.7	5.0		10.5	L.005	L.01		50 <sup>e</sup> MEDIANE
75TH	.066	4.1	9.5		12.4	L.005	L.01		75 <sup>e</sup>
90TH	.119								90 <sup>e</sup>
SECONDARY CODE	06L	07L				53E 53L 52E		04E	CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	N MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG MG/L	
SAMPLES(FLAGS) 0301	6(4)	1(0)	1(1)	4(3)	7(0)		4(3)	7(5)	ECHANTILLONS(IND.)
LOW	L.02	.02	L.01	L.001	.005		L.001	L.05	MINIMUM
HIGH	L.1	.02	L.01	.001	.06		.001	.14	MAXIMUM
AVERAGE	.053*			.001*	.013		.001*	.06*	MOYENNE
STD.DEV.	.030*			.000*	.021		.000*	.03*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.04			L.001	.005		L.001	L.05	25 <sup>e</sup>
MEDIAN 50TH	.040*			L.001	.005		L.001	L.05	50 <sup>e</sup> MEDIANE
75TH	.08			.001*	.005		.001*	.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L 03L	06L	02E	07L	07L 04E 05E		4.	.14E	CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG SULPH MG/L	MG/L	MG/L	MG/L	M	MP NO. ML	MPN NO. ML	
SAMPLES(FLAGS) 0301		7(1)		7(6)	9(0)	1(0)	7(0)	8(0)	ECHANTILLONS(IND.)
LOW		L.1		0.	8.8	8.	2.	2.	MINIMUM
HIGH		.4		L.03	572.	8.	33.	540.	MAXIMUM
AVERAGE		.26*		.03*	97.9		9.	83.	MOYENNE
STD.DEV.		.10*		.01*	182.8		13	185	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		2		L.03	11.		2	3	25 <sup>e</sup>
MEDIAN 50TH		.3		L.03	21.		2.	14.	50 <sup>e</sup> MEDIANE
75TH		.3		L.03	93		20	46	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-1979

PEACE RIVER SUB-BASIN

STATION **00CB07FA0003** LAT. **56 D 12M 35 S** LONG. **120 D 51M 20 S**

UTM **10 633000E 6231200N**  
NOV 19, 1971 TO/À OCT 22, 1974

PEACE RIVER TWO MILES UPSTREAM FROM  
FORT ST. JOHN SANITARY DISCHARGE SITE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	4(0)	3(3)	10(0)	10(0)	9(0)	8(0)		ECHANTILLONS(IND.)
LOW		166.	Q100.	83.4	5.	2.	7.9	80.	MINIMUM
HIGH		187.	Q102.	99.	80.	120.	8.1	95.	MAXIMUM
AVERAGE		176.		91.9	23.	37.2		86.5	MOYENNE
STD.DEV.		9.		6.2	26.	43.7		5.2	ECART-TYPE
PERCNT:10TH				83.9	5.				10 <sup>e</sup> PERCNT
25TH		170.		84.5	5.	8.	8.0	81.5	25 <sup>e</sup>
MEDIAN 50TH		175.	Q101.	94.8	13.	17.	8.0	87.4	50 <sup>e</sup> MEDIANE
75TH		182.		97.	20.	46.	8.1	89.8	75 <sup>e</sup>
90TH				98.3	70.				90 <sup>e</sup>
SECONDARY CODE				03E					CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0301	7(0)	7(0)	9(0)	9(0)	6(0)	6(0)	8(5)	8(0)	ECHANTILLONS(IND.)
LOW		.4	1.2	24.5	5.	0.	98.	0.	6.8	MINIMUM
HIGH		.9	1.6	28.8	6.3	0.	116.	.7	12.	MAXIMUM
AVERAGE		.6	1.3	26.89	5.7	0.	106.	.4*	9.2	MOYENNE
STD.DEV.		.2	.1	1.71	.4	0.	7.	.2*	1.9	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.5	1.2	25.6	5.4	0.	98.	L.3	7.6	25 <sup>e</sup>
MEDIAN 50TH		.6	1.3	27.7	5.7	0.	108.	L.5	8.7	50 <sup>e</sup> MEDIANE
75TH		.7	1.3	28.2	6.	0.	110.	.5*	11.0	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L	01L	01L	02E			01L		CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN DISSOLVED ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301	6(0)	4(0)	6(6)	9(1)	3(0)	4(0)		ECHANTILLONS(IND.)
LOW		.1	.03	L.005	L.02	.1	.18		MINIMUM
HIGH		.6	.08	L.005	.08	.3	.33		MAXIMUM
AVERAGE		.3	.053		.049*	.2	.27		MOYENNE
STD.DEV.		.2	.021		.021*	.1	.06		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.2	.040	L.005	.03		.23		25 <sup>e</sup>
MEDIAN 50TH		.2	.050	L.005	.05	.2	.29		50 <sup>e</sup> MEDIANE
75TH		.5	.065	L.005	.07		.32		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FA0003 LAT. 56 D 12 M 35 S LONG. 120 D 51 M 20 S

UTM 10 633000E 6231200 N  
NOV 19 1971 TO/A OCT 22 1974PEACE RIVER TWO MILES UPSTREAM FROM  
FORT ST. JOHN SANITARY DISCHARGE SITE

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	10(0)	6(0)	8(0)		6(0)	8(8)	7(7)	1(0)	ECHANTILLONS(IND.)
LOW	.009	3.4	4.		9.6	L.005	L.01	.02	MINIMUM
HIGH	.236	4.3	60.		13.2	L.005	L.02	.02	MAXIMUM
AVERAGE	.057	3.8	15.3		10.9				MOYENNE
STD.DEV.	.069	.3	18.6		1.5				ECART-TYPE
PERCNT:10TH	.011								10 <sup>e</sup> PERCNT
25TH	.019	3.5	4.5		9.6	L.0050	L.01		25 <sup>e</sup>
MEDIAN 50TH	.024	3.7	10.5		10.3	L.0050	L.01		50 <sup>e</sup> MEDIANE
75TH	.076	4.	14.0		12.3	L.0050	L.02		75 <sup>e</sup>
90TH	.166								90 <sup>e</sup>
SECONDARY CODE	06L	07L	01E			53E 53L 52E		04E	CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	Pb MG/L	Hg MG/L	
SAMPLES(FLAGS) 0301	7(4)	1(1)	1(1)	5(3)	8(4)		5(3)		ECHANTILLONS(IND.)
LOW	L.02	L.02	L.01	L.001	L.005		L.001		MINIMUM
HIGH	.11	L.02	L.01	.002	.07		.002		MAXIMUM
AVERAGE	.064*			.001*	.015*		.001*		MOYENNE
STD.DEV.	.037*			.000*	.023*		.000*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.04			L.001	L.005		L.001		25 <sup>e</sup>
MEDIAN 50TH	.04			L.001	.005*		L.001		50 <sup>e</sup> MEDIANE
75TH	.1			.001	.011		.001		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	03L 04L	06L	02E	07L	07L 04E 05E		04.		CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG SULPH MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO./ML	MPN NO./ML	
SAMPLES(FLAGS) 0301		7(1)		7(6)	9(0)	1(0)	7(3)	9(0)	ECHANTILLONS(IND.)
LOW		L.1		0.	7.2	134.	L.2.	2.	MINIMUM
HIGH		2.2		L.03	475.	134.	130.	350.	MAXIMUM
AVERAGE		.51*		.03*	102.9		27.*	66.	MOYENNE
STD.DEV.		.75*		.01*	156.9		49 *	113	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.2		L.03	10.3		L.2.	13	25 <sup>e</sup>
MEDIAN 50TH		.2		L.03	16.9		2.	23.	50 <sup>e</sup> MEDIANE
75TH		.5		L.03	101.		50	23	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02E				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FA0004 LAT. 56 D 10 M 0 S LONG. 120 D 31 M 45 S

UTM 10 653400E 6227200 N  
NOV 19, 1971 TO/A OCT 22, 1974

PEACE RIVER TWO MILES UPSTREAM FROM  
FORT ST. JOHN SANITARY DISCHARGE SITE

SUBM ID	USIE/CM	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS) 0301		6(0)	2(0)	9(0)	10(1)	10(0)	7(0)	8(0)		ECHANTILLON: IND.)
LOW		168.	113.	82.5	15.	1.	7.8	80.		MINIMUM
HIGH		201.	114.	108.	60.	170.	8.2	109.		MAXIMUM
AVERAGE		189.	113.	97.1	18.*	49.0		92.4		MOYENNE
STD.DEV.		13.	1.	8.4	18.*	58.6		8.8		ECART-TYPE
PERCNT:10TH					5.*	3.7				10 <sup>e</sup> PERCNT
25TH		182.		91.7	5.	9.1	7.9	86.8		25 <sup>e</sup>
MEDIAN 50TH		192.	113.	98.	10.	22.5	8.	92.0		50 <sup>e</sup> MEDIANE
75TH		200.		104.	20.	60.	8.	96.3		75 <sup>e</sup>
90TH					50.	152.5				90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

SUBM ID	K MG/L	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS) 0301		7(0)	7(0)	9(0)	9(0)	6(0)	6(0)	8(3)	8(0)	ECHANTILLONS(IND.)
LOW		.5	1.1	24.8	5.	0.	98.	L.3	6.8	MINIMUM
HIGH		.8	2.6	32.	7.	1.	133.	1.3	14.	MAXIMUM
AVERAGE		.7	1.6	28.60	6.1	0.	111.	.6*	9.8	MOYENNE
STD.DEV.		.1	.6	2.32	.6	0.	12.	.3*	2.4	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.6	1.2	27.	5.8	0.	103.	.4*	7.8	25 <sup>e</sup>
MEDIAN 50TH		.6	1.5	29.2	5.9	0.	109.	.5*	9.8	50 <sup>e</sup> MEDIANE
75TH		.8	2.2	30.1	6.6	0.	115.	.6	11.3	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L	01L	01L	02E			01L		CODE DE SECOURS

SUBM ID	N MG/L	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS) 0301		6(0)	4(0)	6(6)	9(1)	3(0)		4(0)		ECHANTILLONS(IND.)
LOW		.1	.03	L.005	L.02	.2		.22		MINIMUM
HIGH		.8	.08	L.005	.08	.3		.36		MAXIMUM
AVERAGE		.4	.050		.044*	.2		.29		MOYENNE
STD.DEV.		.3	.022		.022*	.1		.07		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.2	.035	L.005	.03			.23		25 <sup>e</sup>
MEDIAN 50TH		.3	.045	L.005	.04	.2		.29		50 <sup>e</sup> MEDIANE
75TH		.6	.065	L.005	.05			.35		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE					01L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FA0004 LAT 56 D 10 M 0 S LONG. 120 D 31 M 45 S

UTM 10 653400E 6227200 N  
NOV 19 1971 TO: A OCT 22 1974PEACE RIVER TWO MILES UPSTREAM FROM  
FORT ST. JOHN SANITARY DISCHARGE SITE

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SIO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	10(0)	6(0)	8(0)		6(0)	8(8)	6(6)		ECHANTILLONS(IND.)
LOW	.01	3.5	2.		9.8	L.005	L.01		MINIMUM
HIGH	.49	4.1	16.		13.2	L.005	L.02		MAXIMUM
AVERAGE	.123	3.8	9.1		11.2				MOYENNE
STD.DEV.	.159	.2	5.5		1.5				ECART-TYPE
PERCNT:10TH	.013								10 <sup>e</sup> PERCNT
25TH	.022	3.6	4.5		9.8	L.0050	L.01		25 <sup>e</sup>
MEDIAN 50TH	.034	3.8	9.0		10.7	L.0050	L.01		50 <sup>e</sup> MEDIANE
75TH	.154	4.1	14.0		13.	L.0050	L.02		75 <sup>e</sup>
90TH	.393								90 <sup>e</sup>
SECONDARY CODE	06L	07L	01E			53E 52E 53L			CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	Ni MG/L	CU MG/L	ZN MG/L	ZN MG/L	Pb MG/L	Hg MG/L	
SAMPLES(FLAGS) 0301	7(3)			6(3)	8(4)		5(4)		ECHANTILLONS(IND.)
LOW	L.04			L.001	L.005		L.001		MINIMUM
HIGH	.18			.15	.06		.001		MAXIMUM
AVERAGE	.080*			.026*	.017*		.001*		MOYENNE
STD.DEV.	.052*			.061*	.021*		.000*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.04			L.001	L.005		L.001		25 <sup>e</sup>
MEDIAN 50TH	.06			.001*	.006*		L.001		50 <sup>e</sup> MEDIANE
75TH	.1			.004	.024		L.001		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L 03L			07L 06L	07L 04E				CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG SULPH MG/L	MG/L	LAS MG/L	MG/L	MG/L	MPN NO. /ML	MPN NO. /ML	
SAMPLES(FLAGS) 0301		7(1)		7(5)	9(0)	1(0)	8(2)	9(0)	ECHANTILLONS(IND.)
LOW		L.1		0.	10.6	162.	L2.	13.	MINIMUM
HIGH		3.5		.06	822.	162.	490.	3500.	MAXIMUM
AVERAGE		.73*		.03*	161.0		76.*	450.	MOYENNE
STD.DEV.		1.23*		.02*	264.8		168.*	1147	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		2		L.03	12.4		8	17	25 <sup>e</sup>
MEDIAN 50TH		.2		L.03	26.		17.	33.	50 <sup>e</sup> MEDIANE
75TH		6		L.03	131.		35.*	170	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02E				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FA0005** LAT. **56 D 10 M 0 S** LONG. **120 D 45 M 40 S**UTM **10 639000E 6226600 N**  
NOV 19, 1971 TO/A OCT 22, 1974PEACE RIVER 100 YDS ABOVE RAILWAY  
BRIDGE NEAR FORT ST. JOHN

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0301	4(0)	2(1)	8(0)	9(0)	7(0)	7(0)	7(0)		MINIMUM
HIGH		165.	Q111.	81.7	5.	2.3	7.6	80.		MAXIMUM
AVERAGE		191.	115.	107.	55.	170.	8.2	108.		MOYENNE
STD.DEV.		12.	3.*	8.8	18.	60.0		9.3		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		171.		87.3	5.	5.4	7.9	82.		25 <sup>e</sup>
MEDIAN 50TH		182.	113.	93.8	10.	11.	8.	90.5		50 <sup>e</sup> MEDIANE
75TH		189.		101.0	15.	44.	8.1	95.		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	7(0)	5(0)	7(0)	8(0)	6(0)	6(0)	7(4)	8(0)	MINIMUM
HIGH		.4	1.3	24.8	4.8	0.	98.	L.3	7.8	MAXIMUM
AVERAGE		.8	2.1	30.6	6.5	0.	132.	1.	14.5	MOYENNE
STD.DEV.		.6	1.6	27.66	5.8	0.	111.	.6*	10.3	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.5	1.4	25.5	5.6	0.	100.	L.5	9.0	25 <sup>e</sup>
MEDIAN 50TH		.6	1.4	27.1	5.7	0.	109.	L.5	9.9	50 <sup>e</sup> MEDIANE
75TH		.7	1.6	30.4	6.3	0.	116.	.6	11.0	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L	01L	01L	02E			01L		CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	6(0)	3(0)	5(5)	8(1)	2(0)		3(0)		MINIMUM
HIGH		.1	.03	L.005	L.02	.1		.17		MAXIMUM
AVERAGE		.7	.08	L.005	.08	.2		.33		MOYENNE
STD.DEV.		.3	.050		.046*	.2		.25		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.2	.026		.023*	.1		.08		25 <sup>e</sup>
MEDIAN 50TH		.1		L.005	.030					50 <sup>e</sup> MEDIANE
75TH		.3	.04	L.005	.040	.2		.26		75 <sup>e</sup>
90TH		.5		L.005	.065					90 <sup>e</sup>
SECONDARY CODE					01L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FA0005 LAT. 56 D 10 M 0 S LONG. 120 D 45 M 40 S

UTM 10 639000E 6226600 N  
NOV 19 1971 TO/A OCT 22 1974PEACE RIVER 100 YDS ABOVE RAILWAY  
BRIDGE NEAR FORT ST. JOHN

	14101L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED CR	25104L MANGANESE DISSOLVED MN	25004L MANGANESE TOTAL MN	
SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	O2 MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	9(1)	6(0)	7(0)		7(0)	7(7)	6(5)	1(0)	ECHANTILLONS(IND.)
LOW	L.003	3.5	2.		8.1	L.005	L.01	.02	MINIMUM
HIGH	.208	4.1	15.		13.	L.005	L.02	.02	MAXIMUM
AVERAGE	.052*	3.7	7.1		10.6		.01*		MOYENNE
STD.DEV.	.069*	2	4.9		1.7		.00*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.014	3.6	3.		9.5	L.005	L.01		25 <sup>e</sup>
MEDIAN 50TH	.02	3.7	5.		10.4	L.005	L.01		50 <sup>e</sup> MEDIANE
75TH	.034	3.9	11.		12.2	L.005	.01		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	07L				52E 53E 53L		04E	CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301	7(4)	1(1)	1(1)	5(2)	7(5)		5(2)	6(2)	ECHANTILLONS(IND.)
LOW	L.04	L.02	L.01	L.001	L.005		L.001	L.05	MINIMUM
HIGH	.1	L.02	L.01	.001	.06		.008	.06	MAXIMUM
AVERAGE	.069*			.001*	.014*		.002*	.05*	MOYENNE
STD.DEV.	.030*			.000*	.021*		.003*	.00*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.04			L.001	L.005		L.001	L.05	25 <sup>e</sup>
MEDIAN 50TH	.06			.001	L.005		.001	.05	50 <sup>e</sup> MEDIANE
75TH	.1			.001	.011		.001	.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L 03L	06L	02E	07L	04E 05E 07L		04L	11E	CODE DE SECOURS

	80011L MERCURY TOTAL HG	06551L TANNIN AND LIGNIN LIQ. SULPH	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	36010E COLIFORMS FECAL MF	36000E COLIFORMS TOTAL MPN	
SUBM ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	NO/ML	NO/ML	
SAMPLES(FLAGS) 0301		7(1)		7(5)	8(0)	1(0)	7(1)	8(0)	ECHANTILLONS(IND.)
LOW		L.1		0.	9.5	148.	2.	8.	MINIMUM
HIGH		.4		.31	648.	148.	80.	1300.	MAXIMUM
AVERAGE		.27*		.07*	127.3		20.*	209.	MOYENNE
STD.DEV.		.13*		.11*	219.9		27.*	447.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.2		L.03	12.0		2.	8.	25 <sup>e</sup>
MEDIAN 50TH		.2		L.03	20.0		13.	20.	50 <sup>e</sup> MEDIANE
75TH		4		L.03	148.5		20.	155.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02E				

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

PEACE RIVER SUB-BASIN

STATION **00CB07FA0006** LAT. **56 D 9 M 55 S** LONG. **120 D 49 M 40 S**

UTM **10 634800E 6226400 N**  
NOV 19, 1971 TO/À OCT 22, 1974

PEACE RIVER 100 YDS ABOVE RAILWAY  
BRIDGE NEAR FORT ST. JOHN

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>5(0)</b>	<b>2(1)</b>	<b>9(0)</b>	<b>10(1)</b>	<b>10(0)</b>	<b>8(0)</b>	<b>8(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>166.</b>	<b>Q106.</b>	<b>81.7</b>	<b>L5.</b>	<b>1.8</b>	<b>7.7</b>	<b>79.5</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>187.</b>	<b>110.</b>	<b>103.</b>	<b>60.</b>	<b>130.</b>	<b>8.2</b>	<b>102.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>178.</b>	<b>108.*</b>	<b>91.8</b>	<b>18.*</b>	<b>34.7</b>		<b>87.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>8.</b>	<b>3.*</b>	<b>7.2</b>	<b>18.*</b>	<b>43.1</b>		<b>7.1</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					<b>5.*</b>	<b>3.2</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>173.</b>		<b>87.</b>	<b>5.</b>	<b>6.7</b>	<b>8.0</b>	<b>82.6</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>179.</b>	<b>108.</b>	<b>91.5</b>	<b>10.</b>	<b>14.0</b>	<b>8.0</b>	<b>87.6</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>183.</b>		<b>98.</b>	<b>20.</b>	<b>48.</b>	<b>8.1</b>	<b>90.8</b>		<b>75<sup>e</sup></b>
<b>90TH</b>					<b>50.</b>	<b>110.0</b>				<b>90<sup>e</sup></b>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>7(0)</b>	<b>7(0)</b>	<b>9(0)</b>	<b>9(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>9(3)</b>	<b>7(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.4</b>	<b>1.1</b>	<b>24.8</b>	<b>4.8</b>	<b>0.</b>	<b>97.</b>	<b>0.</b>	<b>8.2</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.7</b>	<b>2.3</b>	<b>29.</b>	<b>6.4</b>	<b>0.</b>	<b>124.</b>	<b>1.4</b>	<b>14.5</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.6</b>	<b>1.4</b>	<b>26.89</b>	<b>5.7</b>	<b>0.</b>	<b>108.</b>	<b>.5*</b>	<b>10.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.1</b>	<b>.4</b>	<b>1.67</b>	<b>.5</b>	<b>0.</b>	<b>10.</b>	<b>.4*</b>	<b>2.2</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.5</b>	<b>1.1</b>	<b>25.6</b>	<b>5.5</b>	<b>0.</b>	<b>98.</b>	<b>L.5</b>	<b>8.8</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.6</b>	<b>1.3</b>	<b>27.</b>	<b>5.8</b>	<b>0.</b>	<b>108.</b>	<b>L.5</b>	<b>10.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.7</b>	<b>1.4</b>	<b>28.8</b>	<b>6.</b>	<b>0.</b>	<b>111.</b>	<b>.5</b>	<b>12.2</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE		01L	01L	01L	02E			01L		CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>6(0)</b>	<b>4(0)</b>	<b>6(6)</b>	<b>8(1)</b>	<b>3(0)</b>	<b>1(0)</b>	<b>4(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.1</b>	<b>.03</b>	<b>L.005</b>	<b>L.02</b>	<b>.1</b>	<b>.01</b>	<b>.15</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.4</b>	<b>.1</b>	<b>L.005</b>	<b>.1</b>	<b>.3</b>	<b>.01</b>	<b>.34</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.3</b>	<b>.055</b>		<b>.046*</b>	<b>.2</b>		<b>.27</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.2</b>	<b>.031</b>		<b>.027*</b>	<b>.1</b>		<b>.08</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.1</b>	<b>.035</b>	<b>L.005</b>	<b>.025</b>			<b>.22</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.3</b>	<b>.045</b>	<b>L.005</b>	<b>.040</b>	<b>.3</b>		<b>.30</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.4</b>	<b>.075</b>	<b>L.005</b>	<b>.060</b>			<b>.32</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE					01L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FA0006 LAT. 56 D 9 M 55 S LONG. 120 D 49 M 40 S

UTM 10 634800E 6226400 N  
NOV 19 1971 TO A OCT 22 1974PEACE RIVER 100 YDS ABOVE RAILWAY  
BRIDGE NEAR FORT ST. JOHN

		15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED CR	25104L MANGANESE DISSOLVED MN	25004L MANGANESE TOTAL MN	
	SUBM ID	P MG/L	MG/L	C MG/L	C MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301	10(0)	5(0)	8(0)		6(0)	8(8)	7(7)		ECHANTILLONS(IND.)
LOW		.012	3.6	3.		9.8	L.005	L.01		MINIMUM
HIGH		.195	4.1	16.		13.5	L.005	L.02		MAXIMUM
AVERAGE		.057	3.8	8.1		11.2				MOYENNE
STD.DEV.		.064	.2	4.9		1.5				ECART-TYPE
PERCNT:10TH		.013								10 <sup>e</sup> PERCNT
25TH		.017	3.6	3.5		9.8	L.0050	L.01		25 <sup>e</sup>
MEDIAN 50TH		.027	3.8	7.5		10.8	L.0050	L.01		50 <sup>e</sup> MEDIANE
75TH		.085	3.8	12.0		12.4	L.0050	L.02		75 <sup>e</sup>
90TH		.170								90 <sup>e</sup>
SECONDARY CODE		06L	07L				53E 52E 53L			CODE DE SECOURS

		26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS)	0301	7(3)	1(1)		5(1)	8(4)		4(3)		ECHANTILLONS(IND.)
LOW		L.04	L.001		L.001	L.005		L.001		MINIMUM
HIGH		.14	L.001		.009	.09		.002		MAXIMUM
AVERAGE		.081*			.003*	.018*		.001*		MOYENNE
STD.DEV.		.041*			.004*	.029*		.001*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.04			.001	L.005		L.001		25 <sup>e</sup>
MEDIAN 50TH		L.1			.001	.006*		L.001		50 <sup>e</sup> MEDIANE
75TH		11			.001	.015		.001*		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		04L 03L	04L		07L	07L 05E 04E		04L		CODE DE SECOURS

		80011L MERCURY TOTAL HG	06551L TANNIN AND LIGNIN LIG SULPH	06716L CHLORO- PHYLL A MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	36010E COLIFORMS FECAL NO./ML	36000E COLIFORMS TOTAL MPN NO./ML	
	SUBM ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L			
SAMPLES(FLAGS)	0301		7(1)		7(6)	9(0)	1(0)	8(4)	9(1)	ECHANTILLONS(IND.)
LOW			L.1		0.	7.7	160.	L2.	5.	MINIMUM
HIGH			.4		L.03	681.	160.	22.	490.	MAXIMUM
AVERAGE			.27*		.03*	122.6		11.*	94.*	MOYENNE
STD.DEV.			13*		.01*	217.5		8.*	155.*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			2		L.03	11.8		3.*	11.	25 <sup>e</sup>
MEDIAN 50TH			.2		L.03	20.		11.	33.	50 <sup>e</sup> MEDIANE
75TH			4		L.03	107.		L20.	110.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						02E				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

PEACE RIVER SUB-BASIN

STATION **00CB07FB0001** LAT. **56 D 11M 50 S** LONG. **120 D 56M 30 S**

UTM **10 627800E 6229800 N**  
NOV 19, 1971 TO/A AUG 29, 1972

PEACE RIVER BACKWATER ONE HALF MILE  
ABOVE CONFLUENCE WITH PEACE RIVER

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>1(0)</b>	<b>2(1)</b>	<b>4(0)</b>	<b>4(1)</b>	<b>4(0)</b>	<b>2(0)</b>	<b>4(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>198.</b>	<b>105.</b>	<b>99.</b>	<b>L5.</b>	<b>2.</b>	<b>7.9</b>	<b>91.</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>198.</b>	<b>Q130.</b>	<b>120.</b>	<b>55.</b>	<b>120.</b>	<b>7.9</b>	<b>110.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>117.*</b>	<b>105.0</b>	<b>20.*</b>	<b>34.9</b>		<b>96.6</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>18.*</b>	<b>10.0</b>	<b>24.*</b>	<b>56.8</b>		<b>9.0</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				<b>99.5</b>	<b>5.*</b>	<b>4.9</b>		<b>91.3</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>117.</b>	<b>100.5</b>	<b>10.</b>	<b>8.8</b>	<b>7.9</b>	<b>92.8</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				<b>110.5</b>	<b>35.</b>	<b>64.9</b>		<b>102.0</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>2(0)</b>	<b>2(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>4(0)</b>	<b>4(0)</b>	<b>4(2)</b>	<b>4(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.7</b>	<b>1.6</b>	<b>28.4</b>	<b>6.</b>	<b>0.</b>	<b>111.</b>	<b>0.</b>	<b>9.2</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>1.1</b>	<b>2.2</b>	<b>35.6</b>	<b>7.5</b>	<b>0.</b>	<b>134.</b>	<b>.8</b>	<b>18.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.9</b>	<b>1.9</b>	<b>30.93</b>	<b>6.6</b>	<b>0.</b>	<b>118.</b>	<b>.4*</b>	<b>12.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.3</b>	<b>.4</b>	<b>4.05</b>	<b>.8</b>	<b>0.</b>	<b>11.</b>	<b>.3*</b>	<b>3.8</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						<b>0.</b>	<b>111.</b>	<b>.1*</b>	<b>10.1</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.9</b>	<b>1.9</b>	<b>28.8</b>	<b>6.2</b>	<b>0.</b>	<b>113.</b>	<b>L.4</b>	<b>11.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						<b>0.</b>	<b>124.</b>	<b>.6*</b>	<b>15.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE		<b>01L</b>	<b>01L</b>	<b>01L</b>	<b>02E</b>			<b>01L</b>		CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>3(0)</b>		<b>3(3)</b>	<b>3(1)</b>					<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.1</b>		<b>L.005</b>	<b>L.02</b>					<b>MINIMUM</b>
<b>HIGH</b>		<b>.6</b>		<b>L.005</b>	<b>.05</b>					<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.4</b>			<b>.033*</b>					<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.2</b>			<b>.015*</b>					<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.4</b>		<b>L.005</b>	<b>.03</b>					<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE					<b>01L</b>					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FB0001 LAT. 56 D 11 M 50 S LONG. 120 D 56 M 30 S

UTM 10 627800E 6229800N  
NOV 19 1971 TO/A AUG 29 1972PEACE RIVER BACKWATER ONE HALF MILE  
ABOVE CONFLUENCE WITH PEACE RIVER

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	4(0)	3(0)	3(0)	.	6(0)	3(3)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW	.005	3.2	5.		9.1	L.005	L.01	.01	MINIMUM
HIGH	.32	4.1	13.		13.4	L.005	L.01	.01	MAXIMUM
AVERAGE	.092	3.7	9.7		10.9				MOYENNE
STD.DEV.	.153	.5	4.2		1.6				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.011				9.8				25 <sup>e</sup>
MEDIAN 50TH	.021	3.8	11.		10.6	L.005			50 <sup>e</sup> MEDIANE
75TH	.173				11.9				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	07L				53L 53E		04E	CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301	2(0)	1(0)	1(0)		2(1)			3(2)	ECHANTILLONS(IND.)
LOW	.04	.03	.01		L.005			L.05	MINIMUM
HIGH	.04	.03	.01		.02			.06	MAXIMUM
AVERAGE	.040				.012'			.05'	MOYENNE
STD.DEV.	.000				.011'			.01'	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	.040				.012'			L.05	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L 03L	06L	02E		05E			11E	CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG SULPH MG/L	MG/L	MG/L	MG/L	MG/L	MF NO./ML	MPN NO./ML	
SAMPLES(FLAGS) 0301		4(0)		4(2)	3(0)	1(0)	3(0)	4(0)	ECHANTILLONS(IND.)
LOW		.2		0.	2.7	160.	2.	14.	MINIMUM
HIGH		3.8		.03	305.	160.	110.	1600.	MAXIMUM
AVERAGE		1.12		.02'	104.5		45.	642.	MOYENNE
STD.DEV.		1.78		.02'	173.6		57.	766.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.20		.01'				24	25 <sup>e</sup>
MEDIAN 50TH		.25		L.03	5.8		23.	477.	50 <sup>e</sup> MEDIANE
75TH		2.05		.03'				1260.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-1979

PEACE RIVER SUB-BASIN

STATION **00CB07FB0002** LAT. **56 D 8 M 20 S** LONG. **120 D 42 M 10 S**

UTM **10 642800E 6223600 N**  
NOV 19, 1971 TO/À OCT 22, 1974

PINE RIVER ONE HALF MILE ABOVE  
CONFLUENCE WITH PEACE RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b> 0301	5(0)	1(0)	9(0)	10(1)	10(0)	6(0)	6(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>187.</b>	<b>159.</b>	<b>93.</b>	<b>L5.</b>	<b>3.3</b>	<b>7.8</b>	<b>98.5</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>360.</b>	<b>159.</b>	<b>187.</b>	<b>225.</b>	<b>340.</b>	<b>8.2</b>	<b>177.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>254.</b>		<b>132.9</b>	<b>40.*</b>	<b>86.4</b>		<b>134.8</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>80.</b>		<b>34.4</b>	<b>69.*</b>	<b>112.4</b>		<b>30.3</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				<b>5.*</b>	<b>5.9</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>196.</b>		<b>101.</b>	<b>5.</b>	<b>16.</b>	<b>7.9</b>	<b>101.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>206.</b>		<b>144.</b>	<b>10.</b>	<b>37.0</b>	<b>8.0</b>	<b>141.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>319.</b>		<b>154.</b>	<b>40.</b>	<b>130.</b>	<b>8.1</b>	<b>150.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>				<b>153.</b>	<b>282.0</b>				<b>90<sup>e</sup></b>
SECONDARY CODE			03E				02L		CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b> 0301	6(0)	7(0)	9(0)	8(0)	5(0)	5(0)	8(0)	8(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.3</b>	<b>1.3</b>	<b>27.4</b>	<b>5.1</b>	<b>0.</b>	<b>123.</b>	<b>.5</b>	<b>8.5</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.</b>	<b>4.2</b>	<b>53.</b>	<b>11.4</b>	<b>1.</b>	<b>216.</b>	<b>1.7</b>	<b>21.2</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.6</b>	<b>3.0</b>	<b>37.50</b>	<b>8.6</b>	<b>0.</b>	<b>173.</b>	<b>.9</b>	<b>16.6</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.3</b>	<b>1.2</b>	<b>8.96</b>	<b>2.5</b>	<b>1.</b>	<b>34.</b>	<b>.4</b>	<b>4.9</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.4</b>	<b>1.3</b>	<b>29.3</b>	<b>6.7</b>	<b>0.</b>	<b>165.</b>	<b>.6</b>	<b>12.9</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.6</b>	<b>3.3</b>	<b>40.</b>	<b>8.8</b>	<b>0.</b>	<b>177.</b>	<b>.8</b>	<b>19.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.8</b>	<b>3.8</b>	<b>42.9</b>	<b>10.6</b>	<b>0.</b>	<b>183.</b>	<b>1.0</b>	<b>19.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	01L	01L	01L	02E			01L		CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07554L NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	
<b>SAMPLES(FLAGS)</b> 0301	6(0)	4(1)	6(6)	9(2)	3(0)		4(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.0</b>	<b>L.02</b>	<b>L.005</b>	<b>L.02</b>	<b>.0</b>		<b>.02</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>1.8</b>	<b>.12</b>	<b>L.005</b>	<b>.6</b>	<b>.7</b>		<b>.79</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.6</b>	<b>.073*</b>		<b>.116*</b>	<b>.3</b>		<b>.36</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.7</b>	<b>.046*</b>		<b>.185*</b>	<b>.3</b>		<b>.32</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.0</b>	<b>.035*</b>	<b>L.005</b>	<b>.02</b>			<b>.17</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.3</b>	<b>.075</b>	<b>L.005</b>	<b>.05</b>	<b>.3</b>		<b>.32</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.2</b>	<b>.110</b>	<b>L.005</b>	<b>.1</b>			<b>.56</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE				01L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 1979  
PEACE RIVER SUB BASIN

00CB07FB0002 56° 8' 20" N 120° 42' 10" W

ITEM 10 642800 6223600  
NOV 19 1971 TO: A OCT 22 1974

PINE RIVER ONE HALF MILE ABOVE  
CONFLUENCE WITH PEACE RIVER

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED CR	25104L MANGANESE DISSOLVED MN	25004L MANGANESE TOTAL MN	
SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	10(0)	6(0)	9(1)		6(0)	9(8)	7(5)	1(0)	ECHANTILLONS(IND.)
LOW	.006	2.9	L1		8.7	L.005	L.01	.02	MINIMUM
HIGH	.82	4.3	48.		12.4	.005	.02	.02	MAXIMUM
AVERAGE	.178	3.4	13.9*		10.4	.0050*	.02*		MOYENNE
STD.DEV.	.293	.6	16.7*		1.6	.0000*	.01*		ECART-TYPE
PERCNT:10TH	.008								10 <sup>e</sup> PERCNT
25TH	.029	2.9	2.		8.8	L.005	L.01		25 <sup>e</sup>
MEDIAN 50TH	.047	3.2	4.		10.1	L.005	L.02		50 <sup>e</sup> MEDIANE
75TH	.087	3.9	24.		12.2	L.005	L.02		75 <sup>e</sup>
90TH	.725								90 <sup>e</sup>
SECONDARY CODE	06L	07L				53E 53L 52E		04E	CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301	8(4)	1(1)	1(0)	6(3)	8(7)	1(0)	6(6)	5(4)	ECHANTILLONS(IND.)
LOW	L.04	L.02	.01	L.001	L.005	.008	L.001	L.05	MINIMUM
HIGH	.11	L.02	.01	.002	.06	.008	L.001	.17	MAXIMUM
AVERAGE	.079*			.001*	.012*			.07*	MOYENNE
STD.DEV.	.032*			.001*	.019*			.05*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.040*			L.001	L.005		L.001	L.05	25 <sup>e</sup>
MEDIAN 50TH	L.100			.001*	L.005		L.001	L.05	50 <sup>e</sup> MEDIANE
75TH	.100			.002	L.005		L.001	L.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	03L 04L	06L	02E	07L	05L 05E 04E	05L	04L	11E	CODE DE SECOURS

	80011L MERCURY TOTAL HG	06551L TANNIN AND LIGNIN LIG SULPH. MG/L	06716L CHLORO- PHYLL A MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	10402L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	36010E COLIFORMS FECAL MF NO./ML	36000E COLIFORMS TOTAL MPN NO./ML	
SUBM ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	NO./ML	NO./ML	
SAMPLES(FLAGS) 0301		7(1)		7(5)	9(0)	1(0)	7(1)	9(1)	ECHANTILLONS(IND.)
LOW		L.1		L.03	4.4	280.	L.2.	8.	MINIMUM
HIGH		5.		.05	3721.	280.	280.	920.	MAXIMUM
AVERAGE		.86*		.03*	612.8		49.*	153.*	MOYENNE
STD.DEV.		1.83*		.01*	1214.1		103.*	294.*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.1		L.03	24.		2.	13.	25 <sup>e</sup>
MEDIAN 50TH		.1		L.03	46.		5.	27.	50 <sup>e</sup> MEDIANE
75TH		.5		.04	677.		40.	130.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02E				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

PEACE RIVER SUB-BASIN

STATION **00CB07FB0003** LAT. **56 D 11 M 10 S** LONG. **120 D 57 M 5 S**

UTM **10 627200E 6228400 N**  
APR 25, 1973 TO/À OCT 22, 1974

MOBERLY RIVER ONE HALF MILE ABOVE  
CONFLUENCE WITH PEACE RIVER

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	4(0)		6(0)	6(0)	6(0)	5(0)	4(0)		ECHANTILLONS(IND.)
LOW		187.		98.9	10.	8.2	8.	103.		MINIMUM
HIGH		324.		165.	160.	550.	8.2	157.		MAXIMUM
AVERAGE		234.		121.0	48.	139.8		118.0		MOYENNE
STD.DEV.		61.		24.6	57.	210.5		26.1		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		199.		101.	15.	8.6	8.	104.0		25 <sup>e</sup>
MEDIAN 50TH		213.		117.5	25.	48.0	8.	106.0		50 <sup>e</sup> MEDIANE
75TH		270.		126.	50.	176.	8.1	132.0		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301	4(0)	4(0)	6(0)	6(0)	2(0)	2(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW		.7	2.5	26.9	7.6	0.	130.	.5	8.7	MINIMUM
HIGH		2.7	4.4	45.5	12.6	0.	191.	1.2	16.9	MAXIMUM
AVERAGE		1.3	3.1	32.92	9.4	0.	161.	.8	13.1	MOYENNE
STD.DEV.		1.0	.9	6.81	1.9	0.	43.	.3	4.3	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.8	2.5	27.8	7.7			.6	9.3	25 <sup>e</sup>
MEDIAN 50TH		.9	2.8	31.65	9.2	0.	161.	.7	13.3	50 <sup>e</sup> MEDIANE
75TH		1.8	3.7	34.	10.2			1.0	16.8	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE					02E			01L		CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301	2(0)	4(2)	4(3)	5(2)	4(0)	1(0)	3(0)		ECHANTILLONS(IND.)
LOW		.2	L.02	L.005	L.02	.2	.01	.24		MINIMUM
HIGH		.3	.08	.005	.08	2.2	.01	1.03		MAXIMUM
AVERAGE		.2	.035*	.005*	.032*	.9		.51		MOYENNE
STD.DEV.		.0	.030*	.000*	.027*	.9		.45		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			L.020	L.005	L.02	.2				25 <sup>e</sup>
MEDIAN 50TH		.2	.020*	L.005	.02	.6		.25		50 <sup>e</sup> MEDIANE
75TH			.050	.005*	.02	1.6				75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

STATION 00CB07FB0003 LAT. 56 D 11 M 10 S LONG. 120 D 57 M 5 S

UTM 10 627200E 6228400 N

APR 25, 1973 TO/A OCT 22 1974

MOBERLY RIVER ONE HALF MILE ABOVE  
CONFLUENCE WITH PEACE RIVER

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L			CR MG/L	MN MG/L		
SAMPLES(FLAGS)	0301	6(0)	3(0)	6(0)	3(0)	6(5)	6(4)		ECHANTILLONS(IND.)
LOW	.014	3.6	5.		8.8	L.005	L.01		MINIMUM
HIGH	1.26	5.6	39.		12.3	.005	.02		MAXIMUM
AVERAGE	.332	4.4	16.2		10.3	.0050*	.02*		MOYENNE
STD.DEV.	.493	1.0	15.5		1.8	.0000*	.01*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.017		5.			L.005	.01		25 <sup>e</sup>
MEDIAN 50TH	.091	4.1	7.5		9.8	L.0050	L.02		50 <sup>e</sup> MEDIANE
75TH	.522		33.			L.005	L.02		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		07L				52E 53L			CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		
SAMPLES(FLAGS)	0301	6(1)		6(2)	6(3)		6(4)	5(4)	ECHANTILLONS(IND.)
LOW	.04			L.001	L.005		L.001	L.05	MINIMUM
HIGH	.28			.004	.06		.001	.6	MAXIMUM
AVERAGE	.117*			.002*	.014*		.001*	.16*	MOYENNE
STD.DEV.	.083*			.001*	.022*		.000*	.25*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.08			L.001	L.005		L.001	L.05	25 <sup>e</sup>
MEDIAN 50TH	.100*			.002	.005*		L.001	L.05	50 <sup>e</sup> MEDIANE
75TH	.1			.003	.007		.001	L.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				07L	07L		04L		CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH MG/L	MG/L		MG/L	MG/L	NO./ML	NO./ML	
SAMPLES(FLAGS)	0301	3(0)		3(3)	6(0)		4(1)	6(0)	ECHANTILLONS(IND.)
LOW		.1		L.03	6.2		L2.	23.	MINIMUM
HIGH		1.4		L.03	1249.		23.	920.	MAXIMUM
AVERAGE		.57			310.3		15.*	195.	MOYENNE
STD.DEV.		.72			484.4		10.*	356	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					7.8		7*	33	25 <sup>e</sup>
MEDIAN 50TH		.2		L.03	91.5		18.	56.	50 <sup>e</sup> MEDIANE
75TH					416.		23.	79	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FB0004

LAT. 55 D 42 M 20 S

LONG. 121 D 6 M 40 S

UTM 10 618600E 6174800 N  
MAR 25, 1976 TO/A NOV 03, 1976MURRAY RIVER BELOW COLDSTREAM CREEK  
AT EAST PINE, BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603E HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0301	7(0)		7(0)	1(0)	7(0)	7(0)	5(0)		MINIMUM
HIGH		171.		1.0	40.	4.9	7.9	85.5		MAXIMUM
AVERAGE		390.		192.	40.	176.	8.4	175.		MOYENNE
STD.DEV.		242.		105.8		62.1		123.2		ECART-TYPE
		87.		63.3		72.0		41.9		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		175.		82.1		9.5	7.9	88.6		25 <sup>e</sup>
MEDIAN 50TH		209.		95.4		24.	8.2	106.		50 <sup>e</sup> MEDIANE
75TH		342.		172.		152.	8.4	161.		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102E MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	1(0)	1(0)	7(0)	7(0)	2(0)	2(0)	1(0)	6(0)	MINIMUM
HIGH		.6	3.7	23.5	5.5	1.	107.	1.6	5.8	MAXIMUM
AVERAGE		.6	3.7	47.7	17.7	2.	210.	1.6	32.8	MOYENNE
STD.DEV.				32.67	9.3	1.	158.		15.0	ECART-TYPE
				10.51	4.5	1.	73.		10.3	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				24.2	5.7				6.6	25 <sup>e</sup>
MEDIAN 50TH				27.	7.7	1.	158.		11.7	50 <sup>e</sup> MEDIANE
75TH				47.3	13.2				21.2	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254L PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	7(0)	6(3)	4(4)	4(2)	7(0)	7(1)	4(0)		MINIMUM
HIGH		.06	L.02	L.005	L.02	.06	L.005	.06		MAXIMUM
AVERAGE		.89	.06	L.005	.03	.86	.027	.89		MOYENNE
STD.DEV.		.34	.032*		.022*	.33	.016*	.33		ECART-TYPE
		.35	.016*		.005*	.34	.008*	.38		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.09	L.02	L.005	L.020	.07	.009	.08		25 <sup>e</sup>
MEDIAN 50TH		.22	.025*	L.005	.020*	.21	.013	.19		50 <sup>e</sup> MEDIANE
75TH		.8	.04	L.005	.025	.77	.025	.58		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS



## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FB0004 LAT. 55 D 42 M 20 S LONG. 121 D 6 M 40 S

UTM 10 618600E 6174800N  
MAR 25 1976 TO/A NOV 03 1976MURRAY RIVER BELOW COLDSTREAM CREEK  
AT EAST PINE BRITISH COLUMBIA

	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002L CHROMIUM TOTAL	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	C MG/L	C MG/L	DO MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	7(0)	7(1)	5(0)	2(0)	5(4)	4(2)	6(4)	6(2)	ECHANTILLONS(IND.)
LOW	.011	L.1	21.	9.5	L.01	L.001	L.005	L.02	MINIMUM
HIGH	.364	23.	43.	11.	.01	.006	.036	.15	MAXIMUM
AVERAGE	.125	7.9*	31.2	10.3	.01*	.003*	.011*	.05*	MOYENNE
STD.DEV.	.142	8.6*	11.0	1.1	.00*	.003*	.012*	.05*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.013	1.	22.		L.01	L.001	L.005	L.02	25 <sup>e</sup>
MEDIAN 50TH	.049	4.	27.	10.3	L.01	.003*	L.005	.02	50 <sup>e</sup> MEDIANE
75TH	.269	17.	43.		L.01	.006	.012	.07	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02E	02E	02E-04L	02E	CODE DE SECOURS

	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	30003L ZINC TOTAL	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48003L CADMIUM TOTAL	80013L MERCURY TOTAL	
SUBM ID	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG MG/L	
SAMPLES(FLAGS) 0301	6(0)	6(5)	6(1)	6(2)	6(5)	6(1)	6(5)	6(6)	ECHANTILLONS(IND.)
LOW	.3	L.01	L.001	L.005	L.005	L.0005	L.0005	L.05	MINIMUM
HIGH	11.9	.01	.01	.015	.009	.0013	.0006	L.05	MAXIMUM
AVERAGE	3.40	.010*	.004*	.009*	.006*	.0008*	.0005*		MOYENNE
STD.DEV.	4.58	.000*	.004*	.004*	.002*	.0003*	.0000*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.4	L.01	.001	L.005	L.005	.0007	L.0005	L.05	25 <sup>e</sup>
MEDIAN 50TH	1.20	L.010	.004	.008	L.005	.0007	L.0005	L.05	50 <sup>e</sup> MEDIANE
75TH	5.4	L.01	.007	.011	L.005	.0011	L.0005	L.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E	05L	05L		01E	02L	01E	CODE DE SECOURS

	82002L LEAD TOTAL	09108L FLUORIDE DISSOLVED	10151L ALKALINITY PHENOL PHTHALEIN	06551L TANNIN AND LIGNIN	10401L RESIDUE NONFILTR.	10452L RESIDUE FILTERABLE	10471L RESIDUE TOTAL	
SUBM ID	PB MG/L	F MG/L	CACO3 MG/L	LIG SULPH MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	6(4)	5(4)	2(0)	6(0)	7(0)	4(0)	7(0)	ECHANTILLONS(IND.)
LOW	L.001	L.1	.6	.1	7.	108.	130.	MINIMUM
HIGH	.004	.12	1.5	3.	378.	200.	536.	MAXIMUM
AVERAGE	.002*	.10*	1.0	.8	135.	149.	293.	MOYENNE
STD.DEV.	.001*	.01*	.6	1.1	153.	38.	147.	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	L.001	L.1		3	7	124.	204	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.1	1.0	.4	59.	143.	236.	50 <sup>e</sup> MEDIANE
75TH	.002	L.1		6	305	173.	454.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE	04L				02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0005** LAT. **55 D 35 M 30 S** LONG. **121 D 36 M 0 S**UTM **10 588200E 6161400 N**  
MAR 25, 1976 TO/À NOV 04, 1976SUKUNKA RIVER ABOVE CONFLUENCE WITH  
PINE RIVER NEAR TWIDWELL BEND

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603E HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>7(0)</b>		<b>6(0)</b>	<b>1(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>6(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>178.</b>		<b>.1</b>	<b>30.</b>	<b>4.9</b>	<b>7.8</b>	<b>90.5</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>330.</b>		<b>159.</b>	<b>30.</b>	<b>74.</b>	<b>8.4</b>	<b>167.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>239.</b>		<b>91.1</b>		<b>22.7</b>		<b>127.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>64.</b>		<b>51.4</b>		<b>24.2</b>		<b>31.2</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>179.</b>		<b>90.7</b>		<b>6.8</b>	<b>8.</b>	<b>104.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>210.</b>		<b>94.0</b>		<b>17.</b>	<b>8.2</b>	<b>123.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>315.</b>		<b>109.</b>		<b>28.</b>	<b>8.3</b>	<b>160.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102E MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>1(0)</b>	<b>1(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>6(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.4</b>	<b>3.</b>	<b>27.9</b>	<b>5.1</b>	<b>1.</b>	<b>124.</b>	<b>1.3</b>	<b>L5.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.4</b>	<b>3.</b>	<b>50.4</b>	<b>10.8</b>	<b>1.</b>	<b>124.</b>	<b>1.3</b>	<b>9.7</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>35.87</b>	<b>7.3</b>				<b>6.3*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>10.30</b>	<b>2.4</b>				<b>1.8*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				<b>28.1</b>	<b>5.6</b>				<b>L5.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				<b>30.70</b>	<b>6.2</b>				<b>5.8</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				<b>47.4</b>	<b>9.9</b>				<b>6.3</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254L PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>7(0)</b>	<b>6(2)</b>	<b>4(4)</b>	<b>4(1)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>4(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.07</b>	<b>L.02</b>	<b>L.005</b>	<b>L.02</b>	<b>.04</b>	<b>.009</b>	<b>.07</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.38</b>	<b>.11</b>	<b>L.005</b>	<b>.1</b>	<b>.37</b>	<b>.025</b>	<b>.48</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.18</b>	<b>.065*</b>		<b>.058*</b>	<b>.17</b>	<b>.015</b>	<b>.26</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.13</b>	<b>.038*</b>		<b>.035*</b>	<b>.13</b>	<b>.006</b>	<b>.18</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.07</b>	<b>L.02</b>	<b>L.005</b>	<b>.030*</b>	<b>.06</b>	<b>.01</b>	<b>.12</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.13</b>	<b>.070</b>	<b>L.005</b>	<b>.055</b>	<b>.12</b>	<b>.014</b>	<b>.25</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.33</b>	<b>.1</b>	<b>L.005</b>	<b>.085</b>	<b>.31</b>	<b>.017</b>	<b>.41</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FB0005 LAT. 55 D 35M 30 S LONG. 121 D 36M 0 S

UTM 10 588200E 6161400 N  
MAR 25, 1976 TO/A NOV 04, 1976SUKUNKA RIVER ABOVE CONFLUENCE WITH  
PINE RIVER NEAR TWIDWELL BEND

	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC C	06051L CARBON TOTAL INORGANIC C	08102F OXYGEN DISSOLVED DO	13002L ALUMINIUM TOTAL	23002L VANADIUM TOTAL	24002L CHROMIUM TOTAL	25304L MANGANESE TOTAL	
SUBM ID	P MG/L	C MG/L	C MG/L	O <sub>2</sub> MG/L	AL MG/L	V MG/L	Cr MG/L	Mn MG/L	
SAMPLES(FLAGS) 0301	7(0)	7(2)	5(0)	2(0)	5(4)	3(1)	6(4)	5(1)	ECHANTILLONS(IND.)
LOW	.011	L1.	23.	10.	L.01	L.001	L.005	L.02	MINIMUM
HIGH	.108	8.	43.	11.2	.01	.004	.011	.11	MAXIMUM
AVERAGE	.037	3.0*	32.0	10.6	.01*	.002*	.006*	.05*	MOYENNE
STD.DEV.	.034	2.6*	10.1	.8	.00*	.002*	.002*	.04*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.012	L1.	24.		L.01		L.005	.02	25 <sup>e</sup>
MEDIAN 50TH	.032	2.	27.	10.6	L.01	.001	L.005	.03	50 <sup>e</sup> MEDIANE
75TH	.047	5.	43.		L.01		.005	.07	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02E	02E	04L 02E	4E	CODE DE SECOURS

	26004L IRON TOTAL FE	28007L NICKEL TOTAL NI	29004L COPPER TOTAL CU	30003L ZINC TOTAL ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48003L CADMIUM TOTAL CD	80013L MERCURY TOTAL HG	
SUBM ID	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG UG/L	
SAMPLES(FLAGS) 0301	6(0)	6(6)	6(1)	6(2)	6(5)	6(0)	6(5)	5(5)	ECHANTILLONS(IND.)
LOW	.2	L.01	L.001	L.005	L.005	.0005	L.0005	L.05	MINIMUM
HIGH	4.2	L.01	.009	.04	.006	.0023	L.005	L.05	MAXIMUM
AVERAGE	1.43		.004*	.014*	.005*	.0010	.0013*		MOYENNE
STD.DEV.	1.49		.003*	.014*	.000*	.0007	.0018*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.4	L.01	.001	L.005	L.005	.0006	L.0005	L.05	25 <sup>e</sup>
MEDIAN 50TH	.95	L.010	.004	.008	L.005	.0008	L.0005	L.05	50 <sup>e</sup> MEDIANE
75TH	1.9	L.01	.006	.015	L.005	.001	.0009	L.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E	05L	04L 05L		4E	02L	13E	CODE DE SECOURS

	82002L LEAD TOTAL	09108L FLUORIDE DISSOLVED	10151L ALKALINITY PHENOL PHTHALEIN	06551L TANNIN AND LIGNIN	10401L RESIDUE NONFILTR.	10452L RESIDUE FILTERABLE	10471L RESIDUE TOTAL	
SUBM ID	PB MG/L	F MG/L	CACO <sub>3</sub> MG/L	LIG SULPH MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	6(2)	5(5)	1(0)	6(0)	6(0)	4(0)	7(0)	ECHANTILLONS(IND.)
LOW	L.001	L.1	1.1	.1	8.	104.	134.	MINIMUM
HIGH	.004	L.1	1.1	2.	125.	172.	266.	MAXIMUM
AVERAGE	.002*			.6	41.	139.	180.	MOYENNE
STD.DEV.	.001*			7	45.	32	44	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	L.001	L.1		.2	8	112	142	25 <sup>e</sup>
MEDIAN 50TH	.002	L.1		.4	26.	139.	180.	50 <sup>e</sup> MEDIANE
75TH	.004	L.1		.5	53	165	194	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE	04L				02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

PEACE RIVER SUB-BASIN

STATION **00CB07FB0006** LAT. **55 D 43 M 30 S** LONG. **121 D 14 M 30 S**

UTM **10 610400E 6176600 N**  
MAR 25, 1976 TO/A NOV 03, 1976

PINE RIVER AT EAST PINE, UPSTREAM OF  
CONFLUENCE WITH MURRAY RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603E HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	7(0)	7(0)	1(0)	7(0)	7(0)	6(0)		ECHANTILLONS(IND.)
LOW		171.	83.8	15.	3.6	7.8	91.3		MINIMUM
HIGH		293.	152.	15.	80.	8.4	144.		MAXIMUM
AVERAGE		226.	112.8		27.2		114.9		MOYENNE
STD.DEV.		43.	23.3		28.9		19.1		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		185.	96.7		5.1	7.9	99.		25 <sup>e</sup>
MEDIAN 50TH		217.	105.		17.	8.2	114.5		50 <sup>e</sup> MEDIANE
75TH		270.	134.		54.	8.4	126.		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0301	1(0)	1(0)	7(0)	7(0)	3(1)	3(1)	1(0)	6(0)	ECHANTILLONS(IND.)
LOW		.6	2.2	25.8	4.7	Q1.	Q119.	1.6	6.	MINIMUM
HIGH		.6	2.2	44.2	10.	2.	149.	1.6	12.2	MAXIMUM
AVERAGE				33.56	7.0	1.*	133.*		9.9	MOYENNE
STD.DEV.				6.32	1.8	1.*	15.*		2.2	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				29.5	5.6				9.	25 <sup>e</sup>
MEDIAN 50TH				31.4	6.4	1.	131.		10.3	50 <sup>e</sup> MEDIANE
75TH				39.5	8.7				11.4	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254L PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301	7(0)	6(1)	4(4)	7(0)	7(1)	4(0)		ECHANTILLONS(IND.)
LOW		.04	L.02	L.005	.02	L.005	.07		MINIMUM
HIGH		.76	.13	L.005	.08	.048	.84		MAXIMUM
AVERAGE		.25	.060*		.048	.016*	.40		MOYENNE
STD.DEV.		.24	.041*		.028	.015*	.38		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.07	.02	L.005	.025	.007	.09		25 <sup>e</sup>
MEDIAN 50TH		.21	.055	L.005	.045	.01	.35		50 <sup>e</sup> MEDIANE
75TH		.28	.08	L.005	.070	.022	.72		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FB0006 LAT 55 D 43 M 30 S LONG. 121 D 14 M 30 S

UTM 10 610400E 6176600 N  
MAR 25 1976 TO A NOV 03 1976PINE RIVER AT EAST PINE UPSTREAM OF  
CONFLUENCE WITH MURRAY RIVER

		15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002L CHROMIUM TOTAL	00004 MANGANESE TOTAL	
	SUBM ID	P MG/L	C MG/L	C MG/L	O MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	
SAMPLES(FLAGS)	0301	7(0)	7(1)	5(0)	2(0)	5(4)	4(2)	6(4)	6(3)	ECHANTILLONS(IND.)
LOW		.006	L.1	24.	8.7	L.01	L.001	L.005	L.02	MINIMUM
HIGH		.143	11.	31.	11.	.02	L.01	.015	.08	MAXIMUM
AVERAGE		.051	3.0*	28.2	9.8	.01*	.005*	.007*	.04*	MOYENNE
STD.DEV.		.050	3.7*	2.8	1.6	.00*	.004*	.004*	.03*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.011	1.	27.		L.01	.002*	L.005	L.02	25 <sup>e</sup>
MEDIAN 50TH		.039	1.	29.	9.8	L.01	.005	L.005	.02*	50 <sup>e</sup> MEDIANE
75TH		.092	4.	30.		L.01	.007*	.009	.06	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						.02	.02	04L 02E	.04*	CODE DE SECOURS

		26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	30003L ZINC TOTAL	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48003L CADMIUM TOTAL	80013L MERCURY TOTAL	
	SUBM ID	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG MG/L	
SAMPLES(FLAGS)	0301	6(0)	6(6)	6(1)	6(1)	6(6)	6(1)	6(5)	6(6)	ECHANTILLONS(IND.)
LOW		.2	L.01	L.001	L.005	L.005	L.0005	L.0005	L.05	MINIMUM
HIGH		5.2	L.01	.007	.04	L.005	.0012	.0006	L.05	MAXIMUM
AVERAGE		1.87		.004*	.014*		.0009*	.0005*		MOYENNE
STD.DEV.		2.06		.002*	.013*		.0002*	.0000*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.3	L.01	.002	.007	L.005	.0007	L.0005	L.05	25 <sup>e</sup>
MEDIAN 50TH		1.00	L.010	.004	.010	L.005	.0009	L.0005	L.05	50 <sup>e</sup> MEDIANE
75TH		3.5	L.01	.005	.014	L.005	.001	L.0005	L.05	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			02E	05L	04L 05L		01E	02L	.00*	CODE DE SECOURS

		82002L LEAD TOTAL	09108L FLUORIDE DISSOLVED	10151L ALKALINITY PHENOL PHTHALEIN	06551L TANNIN AND LIGNIN	10401L RESIDUE NONFILTR.	10452L RESIDUE FILTERABLE	10471L RESIDUE TOTAL	
	SUBM ID	PB MG/L	F MG/L	CACO3 MG/L	LIG SULPH MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301	6(3)	5(5)	3(1)	6(0)	7(0)	4(0)	6(0)	ECHANTILLONS(IND.)
LOW		L.001	L.1	L.5	.2	4.	112.	134.	MINIMUM
HIGH		.007	L.1	2.	1.2	159.	174.	316.	MAXIMUM
AVERAGE		.002*		1.2*	.5	51.	135.	192.	MOYENNE
STD.DEV.		.002*		.8*	4	58	27	67.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.001	L.1		.2	8	118	140.	25 <sup>e</sup>
MEDIAN 50TH		.001*	L.1	1.1	.3	25.	126.	181.	50 <sup>e</sup> MEDIANE
75TH		.002	L.1		.5	100	151	202	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		04L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0007** LAT. **55 D 36 M 30 S** LONG. **121 D 31 M 50 S**UTM **10 592600E 6163200 N**  
MAR 25, 1976 TO/A NOV 04, 1976PINE RIVER AT TWIDWELL BEND, OPPOSITE  
CONFLUENCE WITH SUKUNKA RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603E HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	7(0)	6(0)	1(0)	7(0)	7(0)	6(0)		ECHANTILLONS(IND.)
LOW		171.	83.4	10.	4.2	7.8	94.		MINIMUM
HIGH		402.	200.	10.	80.	8.4	170.		MAXIMUM
AVERAGE		272.	129.9		26.9		133.0		MOYENNE
STD.DEV.		81.	41.1		28.9		26.4		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		194.	101.		7.3	8.	118.		25 <sup>e</sup>
MEDIAN 50TH		253.	123.0		14.	8.1	132.0		50 <sup>e</sup> MEDIANE
75TH		339.	149.		54.	8.3	152.		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0301	1(0)	1(0)	6(0)	6(0)	1(0)	1(0)	1(0)	6(0)	ECHANTILLONS(IND.)
LOW		1.	5.2	25.8	4.6	2.	140.	4.1	7.3	MINIMUM
HIGH		1.	5.2	58.4	13.2	2.	140.	4.1	36.8	MAXIMUM
AVERAGE				38.33	8.3				17.2	MOYENNE
STD.DEV.				11.50	3.1				10.3	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				30.4	6.				11.8	25 <sup>e</sup>
MEDIAN 50TH				36.20	7.9				14.3	50 <sup>e</sup> MEDIANE
75TH				43.	10.				18.8	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254L PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301	7(0)	6(1)	4(4)	3(0)	7(0)	7(1)	4(0)	ECHANTILLONS(IND.)
LOW		.06	L.02	L.005	.02	.05	L.005	.07	MINIMUM
HIGH		.33	.1	L.005	.02	.31	.112	.37	MAXIMUM
AVERAGE		.20	.045*		.020	.18	.025*	.19	MOYENNE
STD.DEV.		.11	.033*		.000	.09	.039*	.14	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.07	.02	L.005		.07	.006	.08	25 <sup>e</sup>
MEDIAN 50TH		.21	.030	L.005	.02	.19	.01	.15	50 <sup>e</sup> MEDIANE
75TH		.3	.07	L.005		.25	.019	.30	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 1979

PEACE RIVER SUB-BASIN

STATION 00CB07FB0007 LAT 55 D 36 M 30 S LONG. 121 D 31 M 50 S

UTM 10 592500E 6163200N  
MAR 25 1976 TO/A NOV 04 1976

PINE RIVER AT TWIDWELL BEND OPPOSITE  
CONFLUENCE WITH SUKUNKA RIVER

	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08102F OXYGEN DISSOLVED DO	13002L ALUMINIUM TOTAL	23002L VANADIUM TOTAL	24002L CHROMIUM TOTAL	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	C MG/L	C MG/L	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	7(0)	7(2)	5(0)	2(0)	5(3)	4(2)	6(4)	6(2)	ECHANTILLONS(IND.)
LOW	.008	L1.	24.	10.4	L.01	L.001	L.005	L.02	MINIMUM
HIGH	.186	8.	46.	10.6	13.2	.006	.018	.11	MAXIMUM
AVERAGE	.065	2.7*	33.0	10.5	2.65*	.003*	.008*	.05*	MOYENNE
STD.DEV.	.067	2.5*	8.2	.1	5.90*	.002*	.006*	.04*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.015	L1.	29.		L.01	L.001	L.005	L.02	25 <sup>e</sup>
MEDIAN 50TH	.037	2.	32.	10.5	L.01	.002*	L.005	.03	50 <sup>e</sup> MEDIANE
75TH	.131	3.	34.		.02	.005	.013	.08	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02E	02E	04L 02E	04E	CODÉ DE SECOURS

	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	30003L ZINC TOTAL	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48003L CADMIUM TOTAL	80013L MERCURY TOTAL	
SUBM ID	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG MG/L	
SAMPLES(FLAGS) 0301	5(0)	6(6)	6(1)	6(1)	6(6)	6(0)	6(4)	6(6)	ECHANTILLONS(IND.)
LOW	.3	L.01	L.001	L.005	L.005	.0008	L.0005	L.05	MINIMUM
HIGH	4.3	L.01	.007	.06	L.005	.0017	.0012	L.05	MAXIMUM
AVERAGE	1.44		.004*	.019*		.0011	.0007*		MOYENNE
STD.DEV.	1.68		.003*	.021*		.0003	.0003*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	5	L.01	.001	.006	L.005	.0009	L.0005	L.05	25 <sup>e</sup>
MEDIAN 50TH	.5	L.010	.005	.010	L.005	.0010	L.0005	L.05	50 <sup>e</sup> MEDIANE
75TH	1.6	L.01	.007	.02	L.005	.0012	.0009	L.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E	05L	05L 04L		01E			CODÉ DE SECOURS

	82002L LEAD TOTAL	09108L FLUORIDE DISSOLVED	10151L ALKALINITY PHENOL PHTHALEIN	06551L TANNIN AND LIGNIN	10401L RESIDUE NONFILTR.	10452L RESIDUE FILTERABLE	10471L RESIDUE TOTAL	
SUBM ID	PB MG/L	F MG/L	CACO3 MG/L	LIG SULPH MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	6(3)	5(3)	1(0)	6(0)	7(0)	4(0)	6(0)	ECHANTILLONS(IND.)
LOW	L.001	L.1	1.5	.2	5.	118.	162.	MINIMUM
HIGH	.007	.11	1.5	1.2	200.	240.	366.	MAXIMUM
AVERAGE	.002*	.10*		.5	60.	178.	233.	MOYENNE
STD.DEV.	.002*	.00*		.4	74.	54	74	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	L.001	L.1		.2	8.	134	166	25 <sup>e</sup>
MEDIAN 50TH	.001*	L.1		.4	25.	176.	230.	50 <sup>e</sup> MEDIANE
75TH	.003	.1		.5	123.	221	246	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE	04L				02L			CODÉ DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0008** LAT. **55 D 36 M 30 S** LONG. **121 D 59 M 0 S**UTM **10 564000E 6162800 N**  
MAY 27, 1976 TO/A NOV 04, 1976PINE RIVER BELOW HART HWY BRIDGE  
NEAR CONFLUENCE WITH HASLER CREEK

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>4(0)</b>	<b>4(0)</b>		<b>4(0)</b>	<b>4(0)</b>	<b>4(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>154.</b>		<b>74.1</b>		<b>1.7</b>	<b>7.6</b>	<b>72.5</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>300.</b>		<b>147.</b>		<b>23.</b>	<b>8.3</b>	<b>129.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>220.</b>		<b>109.2</b>		<b>12.5</b>		<b>100.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>67.</b>		<b>32.9</b>		<b>9.1</b>		<b>27.8</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>166.</b>		<b>82.3</b>		<b>5.5</b>	<b>7.7</b>	<b>77.3</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>214.</b>		<b>107.8</b>		<b>12.6</b>	<b>8.0</b>	<b>101.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>275.</b>		<b>136.0</b>		<b>19.5</b>	<b>8.2</b>	<b>124.5</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG. SULPH. MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>4(0)</b>	<b>4(0)</b>		<b>4(0)</b>	<b>3(3)</b>		<b>4(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>23.4</b>	<b>3.8</b>			<b>5.8</b>	<b>L.1</b>		<b>.1</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>43.</b>	<b>9.6</b>			<b>19.7</b>	<b>L.1</b>		<b>.4</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>32.87</b>	<b>6.6</b>			<b>11.6</b>			<b>.3</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>8.94</b>	<b>2.6</b>			<b>6.5</b>			<b>.1</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>25.55</b>	<b>4.5</b>			<b>6.4</b>			<b>.2</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>32.55</b>	<b>6.5</b>			<b>10.5</b>	<b>L.1</b>		<b>.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>40.20</b>	<b>8.6</b>			<b>16.8</b>			<b>.4</b>	<b>75<sup>e</sup></b>
<b>90TH</b>								<b>90<sup>e</sup></b>	
SECONDARY CODE		02E							CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
	KJELDAHL N MG/L	NO3 & NO2 N MG/L	ORGANIC N MG/L	AMMONIA N MG/L	N MG/L	ORTHO PO4 MG/L	P MG/L	ORGANIC C MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>4(0)</b>	<b>3(0)</b>	<b>4(0)</b>	<b>4(0)</b>	<b>4(3)</b>	<b>4(0)</b>	<b>4(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.02</b>	<b>.02</b>		<b>.005</b>	<b>.03</b>	<b>L.003</b>	<b>.005</b>	<b>L.1</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.63</b>	<b>.09</b>		<b>.01</b>	<b>.64</b>	<b>.003</b>	<b>.052</b>	<b>5.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.25</b>	<b>.050</b>		<b>.008</b>	<b>.26</b>	<b>.003*</b>	<b>.030</b>	<b>2.2*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.28</b>	<b>.036</b>		<b>.002</b>	<b>.28</b>	<b>.000*</b>	<b>.021</b>	<b>1.9*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.05</b>			<b>.006</b>	<b>.06</b>	<b>L.003</b>	<b>.014</b>	<b>1.0*</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.17</b>	<b>.04</b>		<b>.008</b>	<b>.18</b>	<b>L.003</b>	<b>.031</b>	<b>1.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.45</b>			<b>.010</b>	<b>.46</b>	<b>.003*</b>	<b>.046</b>	<b>3.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0008 LAT 55° 36' 30" LONG 121° 59' 0"

UTM 10 564000 6162800

MAY 27 1976 TO/A NOV 04 1976

PINE RIVER BELOW HART HWY BRIDGE  
NEAR CONFLUENCE WITH HASLER CREEK

	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS) 0301		3(3)	2(0)	4(3)	4(1)	4(0)		4(4)	ECHANTILLONS(IND.)
LOW		L.01	.002	L.005	L.02	.2		L.01	MINIMUM
HIGH		L.01	.003	.014	.04	2.		L.01	MAXIMUM
AVERAGE			.003	.007*	.03*	1.00			MOYENNE
STD.DEV.			.001	.005*	.01*	.85			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				L.005	.02*	.30		L.010	25 <sup>e</sup>
MEDIAN 50TH		L.01	.003	L.005	.03	.90		L.010	50 <sup>e</sup> MEDIANE
75TH				.009*	.04	1.70		L.010	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E			04E			02E	CODE DE SECOURS

	29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301	4(2)		4(2)		4(4)	4(0)	4(4)	4(4)	ECHANTILLONS(IND.)
LOW	L.001		L.005		L.005	.0007	L.0005	L.05	MINIMUM
HIGH	.005		.012		L.005	.0017	L.0005	L.05	MAXIMUM
AVERAGE	.002*		.008*			.0011			MOYENNE
STD.DEV.	.002*		.004*			.0005			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.001		L.005		L.005	.0008	L.0005	L.05	25 <sup>e</sup>
MEDIAN 50TH	.002*		.008*		L.005	.0009	L.0005	L.05	50 <sup>e</sup> MEDIANE
75TH	.004		.012		L.005	.0014	L.0005	L.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L		03L			01E	03L		CODE DE SECOURS

	82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MF	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	MG/L	MG/L	NO./ML	NO./ML	MG/L	MG/L	
SAMPLES(FLAGS) 0301	4(2)				3(0)	1(0)	ECHANTILLONS(IND.)
LOW	L.001				150.	110.	MINIMUM
HIGH	.004				164.	110.	MAXIMUM
AVERAGE	.002*				156.		MOYENNE
STD.DEV.	.001*				7.		ECART-TYPE
PERCNT:10TH							10 <sup>e</sup> PERCNT
25TH	L.001						25 <sup>e</sup>
MEDIAN 50TH	.001*				154.		50 <sup>e</sup> MEDIANE
75TH	.003						75 <sup>e</sup>
90TH							90 <sup>e</sup>
SECONDARY CODE	04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0009** LAT. **55 D 48 M 0 S** LONG. **121 D 54 M 0 S**UTM **10 569000E 6184200 N**

MAR 25, 1976 TO/À NOV 04, 1976

MOBERLY RIVER ABOVE INLET TO  
MOBERLY LAKE, BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603E HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0301	6(0)		5(0)	1(0)	7(0)	6(0)	7(0)		MINIMUM
HIGH		157.		73.4	15.	.4	7.8	77.2		MAXIMUM
AVERAGE		182.		90.6	15.	5.1	8.4	90.		MOYENNE
STD.DEV.		167.		81.6		2.5		81.9		ECART-TYPE
		10.		6.5		1.9		4.2		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		159.		78.4		.6	7.9	79.		25 <sup>e</sup>
MEDIAN 50TH		165.		80.5		1.6	8.0	82.		50 <sup>e</sup> MEDIANE
75TH		172.		85.		4.2	8.2	83.		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102E MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	1(0)	1(0)	6(0)	6(0)	1(0)	1(0)	1(0)	6(2)	MINIMUM
HIGH		.5	1.7	20.	4.4	1.	95.	.7	L5.	MAXIMUM
AVERAGE		.5	1.7	25.	7.1	1.	95.	.7	6.	MOYENNE
STD.DEV.				23.23	6.1				5.3*	ECART-TYPE
				1.97	1.0				.4*	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				22.	5.7				L5.	25 <sup>e</sup>
MEDIAN 50TH				23.80	6.2				5.2	50 <sup>e</sup> MEDIANE
75TH				24.8	6.8				5.3	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254L PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	7(0)	6(4)	4(4)	4(3)	7(0)	7(0)	4(0)		MINIMUM
HIGH		.14	L.02	L.005	L.02	.12	.008	.14		MAXIMUM
AVERAGE		.24	.03	L.005	.03	.23	.029	.24		MOYENNE
STD.DEV.		.17	.023*		.022*	.16	.017	.18		ECART-TYPE
		.04	.005*		.005*	.04	.007	.05		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.14	L.02	L.005	L.020	.12	.011	.15		25 <sup>e</sup>
MEDIAN 50TH		.15	L.020	L.005	L.020	.14	.015	.17		50 <sup>e</sup> MEDIANE
75TH		.22	.03	L.005	.025*	.21	.022	.21		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

STATION 00CB07FB0009 LAT. 55 D 48 M 0 S LONG. 121 D 54 M 0 S

UTM 10 569000E 6184200 N  
MAR 25 1976 TO/A NOV 04 1976MOBERLY RIVER ABOVE INLET TO  
MOBERLY LAKE BRITISH COLUMBIA

	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	06001L CARBON TOTAL INORGANIC	08102F OXYGEN DISSOLVED DO	13002L ALUMINIUM TOTAL	23002L VANADIUM TOTAL	24002L CHROMIUM TOTAL	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	C MG/L	C MG/L	O2 MG/L	Al MG/L	V MG/L	CR MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	7(0)	7(2)	5(0)	2(0)	5(4)	3(3)	6(6)	6(6)	ECHANTILLONS(IND.)
LOW	.005	L1.	18.	10.6	L.01	L.001	L.005	L.02	MINIMUM
HIGH	.015	7.	24.	10.8	.03	L.001	L.005	L.02	MAXIMUM
AVERAGE	.009	4.6*	20.6	10.7	.01*				MOYENNE
STD.DEV.	.004	2.6*	2.3	.1	.01*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.006	L1.	19.		L.01		L.005	L.02	25 <sup>e</sup>
MEDIAN 50TH	.007	5.	21.	10.7	L.01	L.001	L.005	L.02	50 <sup>e</sup> MEDIANE
75TH	.013	7.	21.		L.01		L.005	L.02	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02E	02E	02E 04L	4E	CODE DE SECOURS

	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	30003L ZINC TOTAL	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48003L CADMIUM TOTAL	80013L MERCURY TOTAL	
SUBM ID	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	As MG/L	MO MG/L	CD MG/L	Hg MG/L	
SAMPLES(FLAGS) 0301	6(0)	6(6)	6(3)	6(3)	6(6)	6(6)	6(5)	6(6)	ECHANTILLONS(IND.)
LOW	.1	L.01	L.001	L.005	L.005	L.0005	L.0005	L.05	MINIMUM
HIGH	.5	L.01	.004	.006	L.005	L.0005	.0006	L.05	MAXIMUM
AVERAGE	.23		.002*	.005*			.0005*		MOYENNE
STD.DEV.	.18		.001*	.001*			.0000*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.1	L.01	L.001	L.005	L.005	L.0005	L.0005	L.05	25 <sup>e</sup>
MEDIAN 50TH	.15	L.010	.001*	.005*	L.005	L.0005	L.0005	L.05	50 <sup>e</sup> MEDIANE
75TH	.4	L.01	.002	.006	L.005	L.0005	L.0005	L.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E	05L	05L		04E	04L	04E	CODE DE SECOURS

	82002L LEAD TOTAL	09108L FLUORIDE DISSOLVED	10151L ALKALINITY PHENOL PTHALEIN	06551L TANNIN AND LIGNIN	10401L RESIDUE NONFILTR.	10402L RESIDUE FILTERABLE	10403L RESIDUE TOTAL	
SUBM ID	PB MG/L	F MG/L	CACO3 MG/L	LIG.SULPH MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	6(3)	5(5)	1(0)	6(0)	6(0)	4(0)	6(0)	ECHANTILLONS(IND.)
LOW	L.001	L.1	.6	.5	1.	98.	100.	MINIMUM
HIGH	.005	L.1	.6	.9	8.	112.	120.	MAXIMUM
AVERAGE	.002*			.7	3.	106.	111.	MOYENNE
STD.DEV.	.002*			1	3	7.	7	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	L.001	L.1		.6	2	100.	106.	25 <sup>e</sup>
MEDIAN 50TH	.001*	L.1		.7	3.	107.	113.	50 <sup>e</sup> MEDIANE
75TH	.002	L.1		.7	4	112.	114.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE	04L				02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0010** LAT. **55 D 10 M 0 S** LONG. **121 D 1 M 0 S**UTM **10 626400E 6115000 N**  
MAY 12, 1976 TO/À SEP 14, 1977MURRAY RIVER AT SECOND MAJOR MEANDER  
APPROX TWO MILES BELOW WOLVERINE RIVER

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603E HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b> 0301	15(0)		15(0)	14(2)	14(0)	15(0)	14(0)		<b>ECHANTILLONS(IND.)</b>
LOW	169.		87.9	L5.	1.3	7.9	88.5		<b>MINIMUM</b>
HIGH	378.		198.	30.	48.	8.4	190.		<b>MAXIMUM</b>
AVERAGE	218.		111.6	13.*	14.0		111.2		<b>MOYENNE</b>
STD.DEV.	54.		28.6	10.*	14.2		27.1		<b>ECART-TYPE</b>
PERCNT:10TH	177.		90.8	L5.	1.4	8.	90.8		10 <sup>e</sup> PERCNT
25TH	194.		96.9	5.	2.9	8.1	94.5		25 <sup>e</sup>
MEDIAN 50TH	200.		103.	8.	9.4	8.3	104.0		50 <sup>e</sup> MEDIANE
75TH	224.		113.	20.	23.	8.3	112.		75 <sup>e</sup>
90TH	298.		154.	30.	35.	8.3	148.		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102E MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0301	1(0)	1(0)	15(0)	15(0)	1(0)	1(0)	1(0)	6(3)	<b>ECHANTILLONS(IND.)</b>
LOW	.4	1.3	24.5	5.7	2.	124.	.8	L5.	<b>MINIMUM</b>
HIGH	.4	1.3	56.	14.2	2.	124.	.8	8.	<b>MAXIMUM</b>
AVERAGE			31.57	8.0				6.1*	<b>MOYENNE</b>
STD.DEV.			7.95	2.2				1.3*	<b>ECART-TYPE</b>
PERCNT:10TH			25.5	6.3					10 <sup>e</sup> PERCNT
25TH			28.2	6.6				L5.	25 <sup>e</sup>
MEDIAN 50TH			29.2	7.3				5.7*	50 <sup>e</sup> MEDIANE
75TH			31.8	8.4				7.3	75 <sup>e</sup>
90TH			42.7	11.5					90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07601E NITROGEN TOTAL N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0301	14(2)	14(5)	7(1)	8(0)	9(2)	9(9)	14(0)	8(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.01	L.02	L.01	.05	L.005	L.003	.005	1.	<b>MINIMUM</b>
HIGH	.38	.1	.31	.48	.024	L.003	.198	8.	<b>MAXIMUM</b>
AVERAGE	.16*	.039*	.15*	.19	.010*		.047	3.5	<b>MOYENNE</b>
STD.DEV.	.10*	.024*	.10*	.13	.007*		.056	2.1	<b>ECART-TYPE</b>
PERCNT:10TH	L.01	L.02		.10	.006	L.003	.006		10 <sup>e</sup> PERCNT
25TH	.1	L.02	.09	.10	.006	L.003	.008	2.5	25 <sup>e</sup>
MEDIAN 50TH	.15	.035	.13	.17	.007	L.003	.021	3.0	50 <sup>e</sup> MEDIANE
75TH	.19	.05	.22	.23	.013	L.003	.061	4.0	75 <sup>e</sup>
90TH	.33	.07					.126		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0010 LAT. 55 D 10 M 0 S LONG. 121 D 1 M 0 S

UTM 10 626400E 6115000N  
JUN 02 1976 TO A SEP 14 1977MURRAY RIVER AT SECOND MAJOR MEANDER  
APPROX TWO MILES BELOW WOLVERINE RIVER

	08102F OXYGEN DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	25004L MANGANESE TOTAL	25104E MANGANESE DISSOLVED	
SUBM ID	DO MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	AL MG/L	V MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	9(0)	5(5)	5(5)	6(0)	6(3)	4(2)	10(5)		ECHANTILLONS(IND.)
LOW	9.1	L.1	L.002	.1	L.01	L.001	L.02		MINIMUM
HIGH	12.4	L.1	L.002	.7	.25	.002	.04		MAXIMUM
AVERAGE	10.7			.3	.06*	.001*	.02*		MOYENNE
STD.DEV.	1.1			.2	.10*	.001*	.01*		ECART-TYPE
PERCNT:10TH							L.02		10 <sup>e</sup> PERCNT
25TH	10.	L.1	L.002	.1	L.01	L.001	L.02		25 <sup>e</sup>
MEDIAN 50TH	11.	L.1	L.002	.3	.01*	.001*	.02*		50 <sup>e</sup> MEDIANE
75TH	11.4	L.1	L.002	.5	.06	.002	.03		75 <sup>e</sup>
90TH							.04		90 <sup>e</sup>
SECONDARY CODE					02E		04E		CODE DE SECOURS

	24003L CHROMIUM TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28002L NICKEL TOTAL	29006L COPPER TOTAL	29107L COPPER DISSOLVED	30004L ZINC TOTAL	30104L ZINC DISSOLVED	
SUBM ID	CR MG/L	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	
SAMPLES(FLAGS) 0301		11(1)	6(6)	7(7)	8(3)	6(5)	11(6)		ECHANTILLONS(IND.)
LOW		L.1	L.01	L.01	L.001	L.001	L.005		MINIMUM
HIGH		1.8	L.1	L.01	.004	.002	1.		MAXIMUM
AVERAGE		.65*			.002*	.001*	.096*		MOYENNE
STD.DEV.		.57*			.001*	.000*	.300*		ECART-TYPE
PERCNT:10TH		.1					L.005		10 <sup>e</sup> PERCNT
25TH		.2	L.1	L.01	L.001	L.001	L.005		25 <sup>e</sup>
MEDIAN 50TH		.5	L.10	L.01	.002	L.001	L.005		50 <sup>e</sup> MEDIANE
75TH		1.3	L.1	L.01	.003	L.001	.007		75 <sup>e</sup>
90TH		1.3					.01		90 <sup>e</sup>
SECONDARY CODE				02E	05L		03L 05L 05E		CODE DE SECOURS

	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	82002L LEAD TOTAL	82104L LEAD DISSOLVED	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	AS MG/L	MO MG/L	CD MG/L	HG UG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	7(7)	6(1)	5(4)	6(6)	8(2)	6(6)	14(0)	14(0)	ECHANTILLONS(IND.)
LOW	L.005	L.0005	L.0005	L.05	L.001	L.001	122.	104.	MINIMUM
HIGH	L.005	.0009	.0005	L.05	.007	L.001	244.	212.	MAXIMUM
AVERAGE		.0007*	.0005*		.003*		160.	129.	MOYENNE
STD.DEV.		.0001*	.0000*		.002*		41.	28.	ECART-TYPE
PERCNT:10TH							128.	110.	10 <sup>e</sup> PERCNT
25TH	L.005	.0006	L.0005	L.05	.001*	L.001	130.	114.	25 <sup>e</sup>
MEDIAN 50TH	L.005	.0007	L.0005	L.05	.003	L.001	136.	123.	50 <sup>e</sup> MEDIANE
75TH	L.005	.0008	L.0005	L.05	.005	L.001	172.	128.	75 <sup>e</sup>
90TH							240.	166.	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values./Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0011** LAT. **55 D 43 M 0 S** LONG. **121 D 13 M 0 S**UTM **10 612000E 6175800 N**

MAY 13, 1976 TO/À SEP 14, 1977

MURRAY RIVER EAST BANK, 100 METRES  
ABOVE CONFLUENCE WITH PINE RIVER

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>16(0)</b>		<b>17(0)</b>	<b>17(1)</b>	<b>16(0)</b>	<b>15(0)</b>	<b>12(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW		<b>180.</b>		<b>90.</b>	<b>L5.</b>	<b>4.4</b>	<b>8.</b>	<b>95.2</b>		<b>MINIMUM</b>
HIGH		<b>339.</b>		<b>174.</b>	<b>100.</b>	<b>180.</b>	<b>8.4</b>	<b>162.</b>		<b>MAXIMUM</b>
AVERAGE		<b>216.</b>		<b>111.1</b>	<b>26.*</b>	<b>45.3</b>		<b>113.0</b>		<b>MOYENNE</b>
STD.DEV.		<b>40.</b>		<b>20.0</b>	<b>24.*</b>	<b>42.7</b>		<b>18.2</b>		<b>ECART-TYPE</b>
PERCNT:10TH		<b>181.</b>		<b>90.9</b>	<b>5.</b>	<b>5.6</b>	<b>8.</b>	<b>96.5</b>		<b>10<sup>e</sup> PERCNT</b>
25TH		<b>189.</b>		<b>99.6</b>	<b>10.</b>	<b>16.0</b>	<b>8.2</b>	<b>98.9</b>		<b>25<sup>e</sup></b>
MEDIAN 50TH		<b>206.</b>		<b>105.</b>	<b>20.</b>	<b>37.0</b>	<b>8.3</b>	<b>111.5</b>		<b>50<sup>e</sup> MEDIANE</b>
75TH		<b>235.</b>		<b>119.</b>	<b>40.</b>	<b>60.5</b>	<b>8.3</b>	<b>119.5</b>		<b>75<sup>e</sup></b>
90TH		<b>255.</b>		<b>132.</b>	<b>50.</b>	<b>81.</b>	<b>8.3</b>	<b>122.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>1(0)</b>	<b>1(0)</b>	<b>17(0)</b>	<b>15(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>6(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW		<b>.5</b>	<b>1.9</b>	<b>25.5</b>	<b>6.3</b>	<b>1.</b>	<b>137.</b>	<b>.6</b>	<b>7.4</b>	<b>MINIMUM</b>
HIGH		<b>.5</b>	<b>1.9</b>	<b>47.3</b>	<b>13.6</b>	<b>1.</b>	<b>137.</b>	<b>.6</b>	<b>9.6</b>	<b>MAXIMUM</b>
AVERAGE				<b>31.03</b>	<b>8.2</b>				<b>8.8</b>	<b>MOYENNE</b>
STD.DEV.				<b>5.23</b>	<b>1.8</b>				<b>1.0</b>	<b>ECART-TYPE</b>
PERCNT:10TH				<b>26.</b>	<b>6.4</b>					<b>10<sup>e</sup> PERCNT</b>
25TH				<b>28.2</b>	<b>7.1</b>				<b>7.6</b>	<b>25<sup>e</sup></b>
MEDIAN 50TH				<b>29.2</b>	<b>7.6</b>				<b>9.3</b>	<b>50<sup>e</sup> MEDIANE</b>
75TH				<b>33.2</b>	<b>8.8</b>				<b>9.6</b>	<b>75<sup>e</sup></b>
90TH				<b>37.</b>	<b>9.7</b>					<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07601E NITROGEN TOTAL	07552E NITROGEN DISSOLVED AMMONIA	15254E PHOSPHATE DISSOLVED ORTHOPHOSPHATE	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	C MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>14(0)</b>	<b>14(7)</b>	<b>8(0)</b>	<b>6(0)</b>	<b>10(2)</b>	<b>11(5)</b>	<b>15(0)</b>	<b>10(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW		<b>.05</b>	<b>L.02</b>	<b>.05</b>	<b>.1</b>	<b>L.005</b>	<b>L.003</b>	<b>.009</b>	<b>3.</b>	<b>MINIMUM</b>
HIGH		<b>.58</b>	<b>.08</b>	<b>.42</b>	<b>.63</b>	<b>.22</b>	<b>.087</b>	<b>.325</b>	<b>9.</b>	<b>MAXIMUM</b>
AVERAGE		<b>.25</b>	<b>.036*</b>	<b>.20</b>	<b>.34</b>	<b>.033*</b>	<b>.011*</b>	<b>.112</b>	<b>5.7</b>	<b>MOYENNE</b>
STD.DEV.		<b>.15</b>	<b>.024*</b>	<b>.13</b>	<b>.17</b>	<b>.066*</b>	<b>.025*</b>	<b>.091</b>	<b>2.2</b>	<b>ECART-TYPE</b>
PERCNT:10TH		<b>.1</b>	<b>L.02</b>			<b>L.005</b>	<b>L.003</b>	<b>.01</b>	<b>3.0</b>	<b>10<sup>e</sup> PERCNT</b>
25TH		<b>.16</b>	<b>L.02</b>	<b>.12</b>	<b>.27</b>	<b>.006</b>	<b>L.003</b>	<b>.013</b>	<b>4.</b>	<b>25<sup>e</sup></b>
MEDIAN 50TH		<b>.19</b>	<b>.020*</b>	<b>.17</b>	<b>.33</b>	<b>.016</b>	<b>.003</b>	<b>.098</b>	<b>6.0</b>	<b>50<sup>e</sup> MEDIANE</b>
75TH		<b>.37</b>	<b>.05</b>	<b>.29</b>	<b>.39</b>	<b>.017</b>	<b>.005</b>	<b>.162</b>	<b>7.</b>	<b>75<sup>e</sup></b>
90TH		<b>.44</b>	<b>.08</b>			<b>.120</b>	<b>.006</b>	<b>.236</b>	<b>8.5</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0011 LAT. 55 D 43M 0 S LONG. 121 D 13M 0 S

UTM 10 612000E 6175800 N  
JUN 06 1976 TO/A SEP 14 1977MURRAY RIVER EAST BANK, 100 METRES  
ABOVE CONFLUENCE WITH PINE RIVER

		08102F OXYGEN DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	25104E MANGANESE DISSOLVED	
	SUBM ID	DO MG/L	F MG/L	PHENOL MG/L	LIG SULPH. MG/L	AL MG/L	V MG/L	MN MG/L	
SAMPLES(FLAGS)	0301	8(0)	5(5)	6(5)	7(0)	5(2)	5(3)	11(3)	ECHANTILLONS(IND.)
LOW		2.8	L.1	L.002	.1	L.01	L.001	L.02	MINIMUM
HIGH		12.	L.1	.003	1.8	.02	.011	.14	MAXIMUM
AVERAGE		8.8		.002*	.7	.01*	.003*	.04*	MOYENNE
STD.DEV.		2.7		.000*	.6	.01*	.004*	.04*	ECART-TYPE
PERCNT:10TH								L.02	10 <sup>e</sup> PERCNT
25TH		8.3	L.1	L.002	.2	L.01	L.001	L.02	25 <sup>e</sup>
MEDIAN 50TH		9.4	L.1	L.002	.3	.01	L.001	.03	50 <sup>e</sup> MEDIANE
75TH		10.1	L.1	L.002	1.	.02	.002	.07	75 <sup>e</sup>
90TH								.08	90 <sup>e</sup>
SECONDARY CODE						02E	00E	04E	CODE DE SECOURS

		24003L CHROMIUM TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28002L NICKEL TOTAL	29006L COPPER TOTAL	29107L COPPER DISSOLVED	30004L ZINC TOTAL	30104L ZINC DISSOLVED	
	SUBM ID	CR MG/L	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	
SAMPLES(FLAGS)	0301		12(0)	6(5)	8(5)	10(0)	6(6)	12(3)		ECHANTILLONS(IND.)
LOW			.3	L.01	L.01	.001	L.001	L.005		MINIMUM
HIGH			11.5	.1	.02	.02	L.001	.062		MAXIMUM
AVERAGE			2.65	.08*	.012*	.006		.014*		MOYENNE
STD.DEV.			3.28	.04*	.005*	.006		.016*		ECART-TYPE
PERCNT:10TH			.3			.001		L.005		10 <sup>e</sup> PERCNT
25TH			.40	L.1	L.010	.002	L.001	.006*		25 <sup>e</sup>
MEDIAN 50TH			1.80	L.10	L.010	.004	L.001	.009		50 <sup>e</sup> MEDIANE
75TH			2.55	L.1	.015	.006	L.001	.015		75 <sup>e</sup>
90TH			6.5			.016		.019		90 <sup>e</sup>
SECONDARY CODE					02E	05L		05L 03L		CODE DE SECOURS

		33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	82002L LEAD TOTAL	82104L LEAD DISSOLVED	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	SUBM ID	AS MG/L	MO MG/L	CD MG/L	HG UG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301	6(6)	7(1)	5(5)	6(6)	9(1)	6(5)	16(0)	15(0)	ECHANTILLONS(IND.)
LOW		L.005	L.0005	L.0005	L.05	L.001	L.001	140.	114.	MINIMUM
HIGH		L.005	.0009	L.0005	L.05	.008	.001	470.	210.	MAXIMUM
AVERAGE			.0007*			.005*	.001*	243.	138.	MOYENNE
STD.DEV.			.0002*			.002*	.000*	92.	22	ECART-TYPE
PERCNT:10TH								150.	120	10 <sup>e</sup> PERCNT
25TH		L.005	.0005	L.0005	L.05	.004	L.001	153.	126	25 <sup>e</sup>
MEDIAN 50TH		L.005	.0008	L.0005	L.05	.004	L.001	232.	134.	50 <sup>e</sup> MEDIANE
75TH		L.005	.0009	L.0005	L.05	.005	L.001	303.	144	75 <sup>e</sup>
90TH								354.	146	90 <sup>e</sup>
SECONDARY CODE			01E							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00CB07FB0012** LAT. **56 D 7 M 0 S** LONG. **120 D 43 M 0 S**

UTM **10 642000 E 6221200 N**  
MAY 13, 1976 TO/A SEP 13, 1977

PINE RIVER EAST BANK AT PEACE ISLAND  
PARK ABOVE CONFLUENCE WITH PEACE RIVER

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603E HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>17(0)</b>		<b>17(0)</b>	<b>16(0)</b>	<b>16(0)</b>	<b>15(0)</b>	<b>14(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>177.</b>		<b>90.6</b>	<b>5.</b>	<b>6.9</b>	<b>8.</b>	<b>96.2</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>318.</b>		<b>160.</b>	<b>40.</b>	<b>460.</b>	<b>8.3</b>	<b>153.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>223.</b>		<b>112.5</b>	<b>20.</b>	<b>79.4</b>		<b>115.0</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>41.</b>		<b>21.2</b>	<b>13.</b>	<b>113.8</b>		<b>16.6</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>189.</b>		<b>94.9</b>	<b>5.</b>	<b>14.</b>	<b>8.</b>	<b>97.7</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>192.</b>		<b>96.8</b>	<b>8.</b>	<b>19.5</b>	<b>8.1</b>	<b>101.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>210.</b>		<b>102.</b>	<b>20.</b>	<b>37.0</b>	<b>8.3</b>	<b>111.5</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>248.</b>		<b>128.</b>	<b>30.</b>	<b>94.0</b>	<b>8.3</b>	<b>125.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>303.</b>		<b>156.</b>	<b>40.</b>	<b>170.</b>	<b>8.3</b>	<b>136.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102E MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>1(0)</b>	<b>1(0)</b>	<b>17(0)</b>	<b>17(0)</b>			<b>1(0)</b>	<b>6(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.6</b>	<b>4.1</b>	<b>27.2</b>	<b>5.5</b>			<b>1.</b>	<b>6.4</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.6</b>	<b>4.1</b>	<b>44.8</b>	<b>11.7</b>			<b>1.</b>	<b>21.5</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>32.48</b>	<b>7.6</b>				<b>12.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>5.53</b>	<b>1.8</b>				<b>5.0</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				<b>28.3</b>	<b>5.8</b>					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				<b>28.7</b>	<b>6.</b>				<b>10.3</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				<b>29.5</b>	<b>7.4</b>				<b>11.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				<b>36.5</b>	<b>8.7</b>				<b>13.8</b>	<b>75<sup>e</sup></b>
<b>90TH</b>				<b>44.5</b>	<b>10.9</b>					<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07601E NITROGEN TOTAL N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>14(0)</b>	<b>14(5)</b>	<b>9(0)</b>	<b>7(0)</b>	<b>10(0)</b>	<b>10(6)</b>	<b>16(0)</b>	<b>9(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.09</b>	<b>L.02</b>	<b>.08</b>	<b>.1</b>	<b>.005</b>	<b>L.003</b>	<b>.007</b>	<b>1.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>2.</b>	<b>.16</b>	<b>.49</b>	<b>2.07</b>	<b>.03</b>	<b>L.033</b>	<b>.97</b>	<b>10.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.39</b>	<b>.054*</b>	<b>.21</b>	<b>.65</b>	<b>.016</b>	<b>.007*</b>	<b>.194</b>	<b>4.7</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.49</b>	<b>.043*</b>	<b>.16</b>	<b>.66</b>	<b>.009</b>	<b>.009*</b>	<b>.234</b>	<b>2.9</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.1</b>	<b>L.02</b>			<b>.006</b>	<b>L.003</b>	<b>.022</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.11</b>	<b>L.02</b>	<b>.09</b>	<b>.11</b>	<b>.008</b>	<b>L.003</b>	<b>.037</b>	<b>3.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.27</b>	<b>.040</b>	<b>.12</b>	<b>.57</b>	<b>.015</b>	<b>.003*</b>	<b>.174</b>	<b>3.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.47</b>	<b>.07</b>	<b>.31</b>	<b>.62</b>	<b>.025</b>	<b>.005</b>	<b>.227</b>	<b>6.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.52</b>	<b>.1</b>			<b>.028</b>	<b>.020*</b>	<b>.402</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0012 LAT. 56 D 7 M 0 S LONG. 120 D 43 M 0 S

UTM 10 642000E 6221200 N  
JUN 03 1976 TO/A SEP 13 1977PINE RIVER EAST BANK AT PEACE ISLAND  
PARK ABOVE CONFLUENCE WITH PEACE RIVER

		08102F OXYGEN DISSOLVED DO	09108L FLUORIDE DISSOLVED F	06531L PHENOLIC MATERIAL PHENOL	06551L TANNIN AND LIGNIN LIG. SULPH.	13002L ALUMINUM TOTAL AL	23002L VANADIUM TOTAL V	25004L MANGANESE TOTAL MN	25104F MANGANESE DISSOLVED MN	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301	10(0)	6(5)	5(4)	7(0)	5(2)	4(1)	11(1)		ECHANTILLONS(IND.)
LOW		7.9	L.1	L.002	.2	L.01	L.001	L.02		MINIMUM
HIGH		12.8	.1	.003	1.2	1.	.014	.38		MAXIMUM
AVERAGE		10.8	.10*	.002*	.6	.21*	.005*	.11*		MOYENNE
STD.DEV.		1.6	.00*	.000*	.4	.44*	.006*	.10*		ECART-TYPE
PERCNT:10TH		8.4						.03		10 <sup>e</sup> PERCNT
25TH		9.7	L.1	L.002	.2	L.01	.001*	.04		25 <sup>e</sup>
MEDIAN 50TH		10.6	L.10	L.002	.8	.02	.003	.11		50 <sup>e</sup> MEDIANE
75TH		12.2	L.1	L.002	1.	.02	.009	.13		75 <sup>e</sup>
90TH		12.6						.13		90 <sup>e</sup>
SECONDARY CODE						02E		04E		CODE DE SECOURS

		24003L CHROMIUM TOTAL CR	26004L IRON TOTAL FE	26104L IRON DISSOLVED FE	28002L NICKEL TOTAL NI	29006L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30004L ZINC TOTAL ZN	30104L ZINC DISSOLVED ZN	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301		12(0)	6(3)	10(6)	12(2)	6(2)	12(3)		ECHANTILLONS(IND.)
LOW			.3	L.1	L.01	L.001	L.001	L.005		MINIMUM
HIGH			34.	.3	.04	.04	.003	.16		MAXIMUM
AVERAGE			7.96	.13*	.013*	.009*	.002*	.021*		MOYENNE
STD.DEV.			9.08	.08*	.009*	.011*	.001*	.044*		ECART-TYPE
PERCNT:10TH			1.		L.010	L.001		L.005		10 <sup>e</sup> PERCNT
25TH			1.80	L.1	L.01	.003	L.001	.005*		25 <sup>e</sup>
MEDIAN 50TH			7.70	.10*	L.010	.008	.002	.007		50 <sup>e</sup> MEDIANE
75TH			9.05	.1	.01	.010	.002	.011		75 <sup>e</sup>
90TH			11.5		.025	.012		.024		90 <sup>e</sup>
SECONDARY CODE					02E	05L		05L		CODE DE SECOURS

		33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	SUBM ID	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301	6(5)	7(0)	7(7)	6(5)	12(2)	5(5)	16(0)	15(0)	ECHANTILLONS(IND.)
LOW		L.005	.0008	L.0005	L.05	L.001	L.001	148.	118.	MINIMUM
HIGH		.01	.0014	L.0005	.05	.012	L.001	1494.	188.	MAXIMUM
AVERAGE		.006*	.0011		.05*	.004*		357.	137.	MOYENNE
STD.DEV.		.002*	.0002		.00*	.003*		325.	22.	ECART-TYPE
PERCNT:10TH						L.001		148.	118.	10 <sup>e</sup> PERCNT
25TH		L.005	.001	L.0005	L.05	.002	L.001	182.	118.	25 <sup>e</sup>
MEDIAN 50TH		L.005	.0012	L.0005	L.05	.004	L.001	237.	128.	50 <sup>e</sup> MEDIANE
75TH		L.005	.0012	L.0005	L.05	.006	L.001	416.	152.	75 <sup>e</sup>
90TH						.008		464.	176.	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0013** LAT. **55 D 41 M 0 S** LONG. **121 D 39 M 0 S**UTM **10 584800 E 6171400 N**  
MAY 12, 1976 TO/A SEP 13, 1977PINE RIVER NORTH BANK AT CHETWYND PUMP  
HOUSE ABOUT 50 M ABOVE CENTURION CREEK

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603E HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>17(0)</b>		<b>16(0)</b>	<b>16(2)</b>	<b>15(0)</b>	<b>14(0)</b>	<b>12(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>142.</b>		<b>85.</b>	<b>L5.</b>	<b>2.4</b>	<b>7.8</b>	<b>84.2</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>348.</b>		<b>181.</b>	<b>75.</b>	<b>88.</b>	<b>8.4</b>	<b>160.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>228.</b>		<b>118.1</b>	<b>21.*</b>	<b>27.2</b>		<b>118.5</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>69.</b>		<b>34.6</b>	<b>19.*</b>	<b>24.5</b>		<b>30.2</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>162.</b>		<b>87.2</b>	<b>L5.</b>	<b>2.4</b>	<b>7.9</b>	<b>86.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>187.</b>		<b>91.6</b>	<b>5.</b>	<b>4.7</b>	<b>8.1</b>	<b>93.1</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>194.</b>		<b>101.4</b>	<b>15.</b>	<b>22.</b>	<b>8.2</b>	<b>103.5</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>288.</b>		<b>151.5</b>	<b>30.</b>	<b>38.</b>	<b>8.3</b>	<b>152.0</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>341.</b>		<b>180.</b>	<b>40.</b>	<b>60.</b>	<b>8.3</b>	<b>155.</b>		<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102E MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>1(0)</b>	<b>1(0)</b>	<b>16(0)</b>	<b>15(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>6(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.7</b>	<b>3.1</b>	<b>25.6</b>	<b>5.</b>	<b>1.</b>	<b>167.</b>	<b>1.9</b>	<b>5.9</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.7</b>	<b>3.1</b>	<b>54.6</b>	<b>10.9</b>	<b>1.</b>	<b>167.</b>	<b>1.9</b>	<b>23.4</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>36.06</b>	<b>7.2</b>				<b>16.6</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>11.28</b>	<b>2.2</b>				<b>7.8</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				<b>25.8</b>	<b>5.1</b>					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				<b>26.65</b>	<b>5.5</b>				<b>8.4</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				<b>29.45</b>	<b>6.5</b>				<b>19.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				<b>45.90</b>	<b>9.4</b>				<b>23.4</b>	<b>75<sup>e</sup></b>
<b>90TH</b>				<b>54.6</b>	<b>10.9</b>					<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07601E NITROGEN TOTAL N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>13(0)</b>	<b>13(3)</b>	<b>7(0)</b>	<b>7(1)</b>	<b>9(1)</b>	<b>9(7)</b>	<b>14(0)</b>	<b>8(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.03</b>	<b>L.02</b>	<b>.03</b>	<b>L.05</b>	<b>L.005</b>	<b>L.003</b>	<b>.006</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.44</b>	<b>.14</b>	<b>.34</b>	<b>.48</b>	<b>.09</b>	<b>.004</b>	<b>.238</b>	<b>11.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.22</b>	<b>.050*</b>	<b>.18</b>	<b>.23*</b>	<b>.019*</b>	<b>.003*</b>	<b>.079</b>	<b>4.4*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.12</b>	<b>.042*</b>	<b>.13</b>	<b>.16*</b>	<b>.027*</b>	<b>.000*</b>	<b>.066</b>	<b>3.2*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.08</b>	<b>L.02</b>					<b>.008</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.1</b>	<b>.02</b>	<b>.07</b>	<b>.09</b>	<b>.006</b>	<b>L.003</b>	<b>.008</b>	<b>2.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.22</b>	<b>.03</b>	<b>.13</b>	<b>.29</b>	<b>.01</b>	<b>L.003</b>	<b>.066</b>	<b>4.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.29</b>	<b>.06</b>	<b>.31</b>	<b>.32</b>	<b>.016</b>	<b>L.003</b>	<b>.12</b>	<b>5.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.36</b>	<b>.12</b>					<b>.153</b>		<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00CB07FB0013 LAT. 55 D 41M 0 S LONG. 121 D 39M 0 S

UTM 10 584800E 6171400N  
JUN 03 1976 TO/A SEP 13 1977PINE RIVER NORTH BANK AT CHETWYND PUMP  
HOUSE ABOUT 50 M ABOVE CENTURION CREEK

	08102F OXYGEN DISSOLVED DO	09108L FLUORIDE DISSOLVED F	06531L PHENOLIC MATERIAL PHENOL	06551L TANNIN AND LIGNIN LIG SULPH.	13002L ALUMINUM TOTAL AL	23002L VANADIUM TOTAL V	25004L MANGANESE TOTAL MN	25104E MANGANESE DISSOLVED MN	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	10(0)	6(3)	6(3)	8(0)	7(5)	6(2)	10(2)		ECHANTILLONS(IND.)
LOW	8.7	L.1	L.002	.1	L.01	L.001	L.02		MINIMUM
HIGH	15.9	.12	.004	.8	1.1	.013	.13		MAXIMUM
AVERAGE	10.9	.11*	.002*	.4	.17*	.005*	.05*		MOYENNE
STD.DEV.	2.1	.01*	.001*	.3	.41*	.004*	.04*		ECART-TYPE
PERCNT:10TH	8.8						L.02		10 <sup>e</sup> PERCNT
25TH	9.7	L.1	L.002	.1	L.01	L.001	.02		25 <sup>e</sup>
MEDIAN 50TH	10.4	.10*	.002*	.4	L.01	.005	.04		50 <sup>e</sup> MEDIANE
75TH	11.7	.12	.003	.8	.02	.005	.06		75 <sup>e</sup>
90TH	13.9						.11		90 <sup>e</sup>
SECONDARY CODE					02E	.02E	.04E		CODE DE SECOURS

	24003L CHROMIUM TOTAL CR	26004L IRON TOTAL FE	26104L IRON DISSOLVED FE	28002L NICKEL TOTAL NI	29006L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30004L ZINC TOTAL ZN	30104L ZINC DISSOLVED ZN	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301		11(0)	8(5)	6(5)	5(0)	8(7)	11(6)		ECHANTILLONS(IND.)
LOW		.1	L.1	L.01	.002	L.001	L.005		MINIMUM
HIGH		7.3	.2	.01	.008	.001	.05		MAXIMUM
AVERAGE		2.21	.12*	.010*	.005	.001*	.012*		MOYENNE
STD.DEV.		2.46	.05*	.000*	.003	.000*	.014*		ECART-TYPE
PERCNT:10TH		.2					L.005		10 <sup>e</sup> PERCNT
25TH		.3	L.10	L.01	.003	L.001	L.005		25 <sup>e</sup>
MEDIAN 50TH		1.5	L.10	L.010	.003	L.001	L.005		50 <sup>e</sup> MEDIANE
75TH		4.9	.15	L.01	.008	L.001	.014		75 <sup>e</sup>
90TH		4.9					.02		90 <sup>e</sup>
SECONDARY CODE				02E	05L		03L 05L		CODE DE SECOURS

	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	10471L RESIDUE TOTAL MG/L	10452L RESIDUE FILTERABLE MG/L	
SUBM ID	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	7(7)	7(0)	2(2)	7(7)	7(1)	8(8)	15(0)	16(0)	ECHANTILLONS(IND.)
LOW	L.005	.0009	L.0005	L.05	L.001	L.001	156.	102.	MINIMUM
HIGH	L.005	.0017	L.0005	L.05	.006	L.001	300.	204.	MAXIMUM
AVERAGE		.0012			.004*		202.	143.	MOYENNE
STD.DEV.		.0003			.002*		42.	37	ECART-TYPE
PERCNT:10TH							158.	110	10 <sup>e</sup> PERCNT
25TH	L.005	.001		L.05	.002	L.001	176.	118	25 <sup>e</sup>
MEDIAN 50TH	L.005	.0011	L.0005	L.05	.003	L.001	182.	126.	50 <sup>e</sup> MEDIANE
75TH	L.005	.0014		L.05	.006	L.001	214.	182	75 <sup>e</sup>
90TH							268	204	90 <sup>e</sup>
SECONDARY CODE		01E							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0014** LAT. **55 D 37M 0 S** LONG. **121 D 35M 0 S**UTM **10 589200E 6164200 N**  
MAY 12, 1976 TO/A SEP 13, 1977SUKUNKA RIVER EAST BANK APPROX 500 M  
ABOVE CONFLUENCE WITH PINE RIVER

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603E HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>18(0)</b>		<b>18(0)</b>	<b>18(2)</b>	<b>16(0)</b>	<b>16(0)</b>	<b>15(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>140.</b>		<b>86.6</b>	<b>15.</b>	<b>2.1</b>	<b>7.9</b>	<b>92.2</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>288.</b>		<b>153.</b>	<b>30.</b>	<b>92.</b>	<b>8.3</b>	<b>151.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>211.</b>		<b>111.1</b>	<b>15.*</b>	<b>21.0</b>		<b>115.0</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>44.</b>		<b>22.3</b>	<b>11.*</b>	<b>24.4</b>		<b>21.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>163.</b>		<b>90.6</b>	<b>15.</b>	<b>2.3</b>	<b>7.9</b>	<b>93.4</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>185.</b>		<b>94.5</b>	<b>5.</b>	<b>2.7</b>	<b>8.1</b>	<b>98.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>191.</b>		<b>101.5</b>	<b>10.</b>	<b>12.5</b>	<b>8.2</b>	<b>104.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>251.</b>		<b>132.</b>	<b>30.</b>	<b>31.5</b>	<b>8.3</b>	<b>135.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>288.</b>		<b>146.</b>	<b>30.</b>	<b>48.</b>	<b>8.3</b>	<b>148.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102E MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>1(0)</b>	<b>1(0)</b>	<b>18(0)</b>	<b>17(0)</b>			<b>1(0)</b>	<b>6(3)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.4</b>	<b>1.9</b>	<b>26.1</b>	<b>5.2</b>			<b>.7</b>	<b>15.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.4</b>	<b>1.9</b>	<b>44.6</b>	<b>10.</b>			<b>.7</b>	<b>7.4</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>33.00</b>	<b>7.0</b>				<b>5.6*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>6.37</b>	<b>1.6</b>				<b>1.0*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				<b>27.4</b>	<b>5.4</b>					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				<b>28.3</b>	<b>5.7</b>				<b>15.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				<b>30.05</b>	<b>6.3</b>				<b>5.1*</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				<b>38.7</b>	<b>8.7</b>				<b>6.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>				<b>43.5</b>	<b>9.2</b>					<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07601E NITROGEN TOTAL N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	15254E PHOSPHATE DISSOLVED ORTHOR PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>15(0)</b>	<b>15(2)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>10(0)</b>	<b>11(8)</b>	<b>16(0)</b>	<b>8(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.04</b>	<b>L.02</b>	<b>.04</b>	<b>.08</b>	<b>.005</b>	<b>L.003</b>	<b>.003</b>	<b>1.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.43</b>	<b>.26</b>	<b>.42</b>	<b>.44</b>	<b>.017</b>	<b>.052</b>	<b>2.24</b>	<b>5.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.15</b>	<b>.081*</b>	<b>.15</b>	<b>.24</b>	<b>.009</b>	<b>.008*</b>	<b>.186</b>	<b>3.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.09</b>	<b>.066*</b>	<b>.12</b>	<b>.12</b>	<b>.004</b>	<b>.015*</b>	<b>.551</b>	<b>1.7</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.05</b>	<b>L.02</b>			<b>.005</b>	<b>L.003</b>	<b>.004</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.09</b>	<b>.03</b>	<b>.08</b>	<b>.14</b>	<b>.006</b>	<b>L.003</b>	<b>.005</b>	<b>2.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.13</b>	<b>.07</b>	<b>.11</b>	<b>.24</b>	<b>.008</b>	<b>L.003</b>	<b>.027</b>	<b>4.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.18</b>	<b>.11</b>	<b>.17</b>	<b>.31</b>	<b>.013</b>	<b>.003</b>	<b>.104</b>	<b>5.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.19</b>	<b>.16</b>			<b>.017</b>	<b>.005</b>	<b>.229</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0014 LAT. 55 D 37 M 0 S LONG. 121 D 35 M 0 S

UTM 10 589200E 6164200 N  
JUN 03 1976 TO A SEP 13 1977SUKUNKA RIVER EAST BANK APPROX 500 M  
ABOVE CONFLUENCE WITH PINE RIVER

		08102F OXYGEN DISSOLVED DO	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	25004L MANGANESE TOTAL	25104E MANGANESE DISSOLVED	
	SUBM ID	O2 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	AL MG/L	V MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS)	0301	10(0)	5(5)	6(5)	8(0)	7(4)	5(2)	12(5)		ECHANTILLONS(IND.)
LOW		8.4	L.1	L.002	.1	L.01	L.001	L.02		MINIMUM
HIGH		13.5	L.1	.002	.8	.7	.011	.11		MAXIMUM
AVERAGE		11.4		.002*	.5	.14*	.003*	.04*		MOYENNE
STD.DEV.		1.5		.000*	.3	.26*	.004*	.03*		ECART-TYPE
PERCNT:10TH		9.4						L.02		10 <sup>e</sup> PERCNT
25TH		10.4	L.1	L.002	.2	L.01	L.001	L.02		25 <sup>e</sup>
MEDIAN 50TH		11.6	L.1	L.002	.6	L.01	.001	.03		50 <sup>e</sup> MEDIANE
75TH		12.3	L.1	L.002	.7	.2	.002	.04		75 <sup>e</sup>
90TH		13.3						.05		90 <sup>e</sup>
SECONDARY CODE						02E	02E	04E		CODE DE SECOURS

		24003L CHROMIUM TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28002L NICKEL TOTAL	29006L COPPER TOTAL	29107L COPPER DISSOLVED	30004L ZINC TOTAL	30104L ZINC DISSOLVED	
	SUBM ID	CR MG/L	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	
SAMPLES(FLAGS)	0301		13(0)	7(4)	7(7)	9(1)	7(5)	11(5)		ECHANTILLONS(IND.)
LOW			.1	L.1	L.01	L.001	L.001	L.005		MINIMUM
HIGH			6.3	.1	L.01	.01	.001	.04		MAXIMUM
AVERAGE			1.25	.10*		.004*	.001*	.012*		MOYENNE
STD.DEV.			1.65	.00*		.003*	.000*	.011*		ECART-TYPE
PERCNT:10TH			.2					L.005		10 <sup>e</sup> PERCNT
25TH			.2	L.1	L.01	.002	L.001	L.005		25 <sup>e</sup>
MEDIAN 50TH			.7	L.1	L.01	.003	L.001	.005		50 <sup>e</sup> MEDIANE
75TH			1.5	.1	L.01	.004	.001	.016		75 <sup>e</sup>
90TH			2.					.022		90 <sup>e</sup>
SECONDARY CODE					02E	05L		03L 05L 03E		CODE DE SECOURS

		33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	82002L LEAD TOTAL	82104L LEAD DISSOLVED	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	SUBM ID	AS MG/L	MO MG/L	CD MG/L	HG UG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301	8(8)	7(0)	3(3)	7(7)	8(0)	7(7)	17(0)	17(0)	ECHANTILLONS(IND.)
LOW		L.005	.0006	L.0005	L.05	.001	L.001	130.	104.	MINIMUM
HIGH		L.005	.0015	L.0005	L.05	.004	L.001	396.	170.	MAXIMUM
AVERAGE			.0009			.003		180.	127.	MOYENNE
STD.DEV.			.0003			.001		65.	21.	ECART-TYPE
PERCNT:10TH								132.	108.	10 <sup>e</sup> PERCNT
25TH		L.005	.0006		L.05	.003	L.001	150.	110.	25 <sup>e</sup>
MEDIAN 50TH		L.005	.0008	L.0005	L.05	.004	L.001	158.	118.	50 <sup>e</sup> MEDIANE
75TH		L.005	.0011		L.05	.004	L.001	174.	142.	75 <sup>e</sup>
90TH								246.	164.	90 <sup>e</sup>
SECONDARY CODE			01E							CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0015** LAT. **55 D 19 M 0 S** LONG. **121 D 43 M 0 S**UTM **10 581400 E 6130600 N**  
MAY 12, 1976 TO/À SEP 13, 1977SUKUNKA RIVER EAST BANK APPROX 10 KM  
BELOW SKEETER CR, 5 KM ABOVE BURNT R.

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603E HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	18(0)	18(0)	18(1)	17(0)	16(0)	15(0)		ECHANTILLONS(IND.)
LOW		125.	90.	15.	.9	7.8	90.4		MINIMUM
HIGH		295.	156.	30.	42.	8.4	156.		MAXIMUM
AVERAGE		214.	114.0	11.*	9.5		116.6		MOYENNE
STD.DEV.		45.	21.3	8.*	11.1		21.8		ECART-TYPE
PERCNT:10TH		165.	94.	5.	1.5	7.9	95.5		10 <sup>e</sup> PERCNT
25TH		189.	95.9	5.	1.7	8.1	99.2		25 <sup>e</sup>
MEDIAN 50TH		199.	106.5	8.	5.3	8.2	105.		50 <sup>e</sup> MEDIANE
75TH		258.	131.	20.	9.7	8.2	137.		75 <sup>e</sup>
90TH		292.	151.	20.	24.	8.3	151.		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102E MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301	1(0)	17(0)	17(0)	1(0)	1(0)	1(0)	6(5)	ECHANTILLONS(IND.)
LOW		.4	26.8	5.6	1.	149.	.7	L5.	MINIMUM
HIGH		.4	45.3	10.5	1.	149.	.7	5.5	MAXIMUM
AVERAGE			32.81	7.5				5.1*	MOYENNE
STD.DEV.			5.72	1.5				.2*	ECART-TYPE
PERCNT:10TH			27.5	5.9					10 <sup>e</sup> PERCNT
25TH			28.5	6.6				L5.	25 <sup>e</sup>
MEDIAN 50TH			30.8	6.9				L5.0	50 <sup>e</sup> MEDIANE
75TH			36.5	8.4				L5.	75 <sup>e</sup>
90TH			43.5	9.8					90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07601E NITROGEN TOTAL N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0301	15(0)	8(0)	8(0)	10(2)	10(9)	17(0)	9(2)	ECHANTILLONS(IND.)
LOW		.01	.05	.1	L.005	L.003	.004	L1.	MINIMUM
HIGH		.36	.34	.43	.029	.003	.14	5.	MAXIMUM
AVERAGE		.14	.17	.23	.011*	.003*	.032	3.1*	MOYENNE
STD.DEV.		.10	.12	.11	.008*	.000*	.037	1.4*	ECART-TYPE
PERCNT:10TH		.05	.02		L.005	L.003	.004		10 <sup>e</sup> PERCNT
25TH		.06	.06	.12	.005	L.003	.004	3.	25 <sup>e</sup>
MEDIAN 50TH		.11	.14	.23	.009	L.003	.015	3.	50 <sup>e</sup> MEDIANE
75TH		.21	.28	.29	.014	L.003	.047	4.	75 <sup>e</sup>
90TH		.35	.17		.024	.003*	.078		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0015 LAT 55° 19' N 0° 5' W LONG 121° 0' 43" W 0° 5' W

UTM 10 581400 6130600  
JUN 03 1976 TO/A SEP 13 1977SUKUNKA RIVER EAST BANK APPROX 10 KM  
BELOW SKEETER CR. 5 KM ABOVE BURNT R.

SUBM ID	08102F OXYGEN DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	25004L MANGANESE TOTAL	25104E MANGANESE DISSOLVED	
	O2 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	AL MG/L	V MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	10(0)	6(6)	6(5)	8(0)	7(6)	5(2)	10(2)		ECHANTILLONS(IND.)
LOW	9.8	L.1	L.002	.1	L.01	L.001	L.02		MINIMUM
HIGH	14.2	L.1	.002	.6	.33	.024	.15		MAXIMUM
AVERAGE	11.9		.002*	.3	.06*	.008*	.04*		MOYENNE
STD.DEV.	1.4		.000*	.2	.12*	.010*	.04*		ECART-TYPE
PERCNT:10TH	9.8						L.02		10 <sup>e</sup> PERCNT
25TH	11.	L.1	L.002	.2	L.01	L.001	.02		25 <sup>e</sup>
MEDIAN 50TH	12.2	L.10	L.002	.4	L.01	.001	.02		50 <sup>e</sup> MEDIANE
75TH	12.8	L.1	L.002	.5	L.01	.012	.02		75 <sup>e</sup>
90TH	13.5						.12		90 <sup>e</sup>
SECONDARY CODE					02E	02E	04E		CODE DE SECOURS

SUBM ID	24003L CHROMIUM TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28002L NICKEL TOTAL	29006L COPPER TOTAL	29107L COPPER DISSOLVED	30004L ZINC TOTAL	30104L ZINC DISSOLVED	
	CR MG/L	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	
SAMPLES(FLAGS) 0301		12(1)	7(5)	2(0)	6(2)	7(7)	12(8)		ECHANTILLONS(IND.)
LOW		L.1	L.1	.01	L.001	L.001	L.005		MINIMUM
HIGH		9.4	.1	.02	.018	L.005	.07		MAXIMUM
AVERAGE		1.38*	.10*	.015	.006*		.016*		MOYENNE
STD.DEV.		2.74*	.00*	.007	.007*		.021*		ECART-TYPE
PERCNT:10TH		.1					L.005		10 <sup>e</sup> PERCNT
25TH		.20	L.1		L.001	L.001	L.005		25 <sup>e</sup>
MEDIAN 50TH		.35	L.1	.015	.004	L.001	L.005		50 <sup>e</sup> MEDIANE
75TH		.60	.1		.01	L.001	.018		75 <sup>e</sup>
90TH		4.					.042		90 <sup>e</sup>
SECONDARY CODE				02E	05L		03L 05L		CODE DE SECOURS

SUBM ID	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	82002L LEAD TOTAL	82104L LEAD DISSOLVED	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	AS MG/L	MO MG/L	CD MG/L	HG UG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	8(8)	7(0)	3(3)	7(7)	6(1)	7(7)	17(0)	17(0)	ECHANTILLONS(IND.)
LOW	L.005	.0005	L.0005	L.05	L.001	L.001	120.	106.	MINIMUM
HIGH	L.005	.0015	L.0005	L.05	.004	L.001	232.	168.	MAXIMUM
AVERAGE		.0010			.003*		156.	131.	MOYENNE
STD.DEV.		.0003			.001*		31.	20.	ECART-TYPE
PERCNT:10TH							124.	110.	10 <sup>e</sup> PERCNT
25TH	L.005	.0008		L.05	.002	L.001	136.	114.	25 <sup>e</sup>
MEDIAN 50TH	L.005	.001	L.0005	L.05	.003	L.001	148.	128.	50 <sup>e</sup> MEDIANE
75TH	L.005	.0013		L.05	.004	L.001	170.	144.	75 <sup>e</sup>
90TH							204.	168.	90 <sup>e</sup>
SECONDARY CODE		01E							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00CB07FB0016** LAT. **55 D 13M 0 S** LONG. **121 D 15M 0 S**

UTM **10 611400E 6120000 N**  
JUL 13, 1976 TO/À SEP 13, 1978

BULLMOOSE CREEK IN MAIN CHANNEL  
AT THE 200 LINE BRIDGE,

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b> 0301	22(0)	12(0)	12(0)	21(3)	21(0)	22(0)	20(0)	1(0)	ECHANTILLONS(IND.)
<b>LOW</b>	143.	0.	72.6	L5.	.8	7.8	71.6	1.7	MINIMUM
<b>HIGH</b>	285.	1.	149.	50.	62.	8.4	145.	1.7	MAXIMUM
<b>AVERAGE</b>	202.	.1	103.1	19.*	17.6		99.6		MOYENNE
<b>STD.DEV.</b>	47.	.3	28.5	15.*	18.9		24.0		ECART-TYPE
<b>PERCNT:10TH</b>	154.	0.	73.8	L5.	1.1	7.9	73.8		10 <sup>e</sup> PERCNT
<b>25TH</b>	167.	.0	78.5	5.	2.4	8.	78.4		25 <sup>e</sup>
<b>MEDIAN 50TH</b>	183.	.0	90.9	15.	13.	8.2	91.2		50 <sup>e</sup> MEDIANE
<b>75TH</b>	239.	.0	128.0	30.	27.	8.3	124.0		75 <sup>e</sup>
<b>90TH</b>	260.	.2	143.	40.	39.	8.3	129.5		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	
<b>SAMPLES(FLAGS)</b> 0301	12(0)	10(0)	1(0)	1(0)	14(1)	4(4)	5(4)	5(0)	ECHANTILLONS(IND.)
<b>LOW</b>	19.5	5.7	2.	148.	L5.	L.01	L.002	.1	MINIMUM
<b>HIGH</b>	41.4	10.6	2.	148.	9.3	L.1	.002	.7	MAXIMUM
<b>AVERAGE</b>	28.41	7.4			7.3*		.002*	.3	MOYENNE
<b>STD.DEV.</b>	8.28	1.7			1.4*		.000*	.3	ECART-TYPE
<b>PERCNT:10TH</b>	20.	5.7			5.3				10 <sup>e</sup> PERCNT
<b>25TH</b>	21.40	5.8			5.9	L.05	L.002	.2	25 <sup>e</sup>
<b>MEDIAN 50TH</b>	24.65	6.8			7.2	L.10	L.002	.2	50 <sup>e</sup> MEDIANE
<b>75TH</b>	36.05	9.2			8.3	L.10	L.002	.5	75 <sup>e</sup>
<b>90TH</b>	39.8	10.0			9.3				90 <sup>e</sup>

SECONDARY CODE

02E

CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	C MG/L	
<b>SAMPLES(FLAGS)</b> 0301	10(1)	20(6)	5(1)	17(4)	6(0)	7(2)	10(0)	6(0)	ECHANTILLONS(IND.)
<b>LOW</b>	L.01	L.02	L.01	L.005	.08	L.003	.004	1.	MINIMUM
<b>HIGH</b>	.73	.05	.16	.026	.78	.006	.365	6.	MAXIMUM
<b>AVERAGE</b>	.20*	.027*	.11*	.008*	.27	.004*	.085	3.5	MOYENNE
<b>STD.DEV.</b>	.20*	.010*	.06*	.005*	.26	.001*	.106	1.9	ECART-TYPE
<b>PERCNT:10TH</b>	.03*	L.020		L.005			.005		10 <sup>e</sup> PERCNT
<b>25TH</b>	.08	L.020	.08	.005	.1	L.003	.008	2.	25 <sup>e</sup>
<b>MEDIAN 50TH</b>	.17	.020	.13	.006	.20	.003	.063	3.5	50 <sup>e</sup> MEDIANE
<b>75TH</b>	.2	.030	.16	.009	.23	.004	.106	5.	75 <sup>e</sup>
<b>90TH</b>	.47	.045		.014			.236		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0016 LAT 55 D 13M 0 S LONG. 121 D 15M 0 S

UTM 10 611400 6120000 N  
AUG 10 1976 TO/A SEP 13 1978BULLMOOSE CREEK IN MAIN CHANNEL  
AT THE 200 LINE BRIDGE

	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002I VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
SUBM ID	O2 MG/L	AL MG/L	VA MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS) 0301	15(0)	5(3)	3(1)	4(3)	13(5)	15(1)	11(6)	4(4)	ECHANTILLONS(IND.)
LOW	7.8	L.01	L.001	L.005	L.02	L.1	L.1	L.01	MINIMUM
HIGH	14.5	2.	.004	.006	.1	4.8	.3	L.01	MAXIMUM
AVERAGE	11.5	.41*	.003*	.005*	.03*	1.21*	.12*		MOYENNE
STD.DEV.	1.5	.89*	.002*	.001*	.02*	1.36*	.06*		ECART-TYPE
PERCNT:10TH	10.4				L.02	.2	L.1		10 <sup>e</sup> PERCNT
25TH	10.7	L.01		L.005	L.02	.2	L.1	L.010	25 <sup>e</sup>
MEDIAN 50TH	11.8	L.01	.003	L.005	.02	.9	L.1	L.010	50 <sup>e</sup> MEDIANE
75TH	12.2	.03		.005*	.03	2.1	.1	L.010	75 <sup>e</sup>
90TH	13.				.05	3.2	.1		90 <sup>e</sup>
SECONDARY CODE		.02			.04E			.02E	CODE DE SECOURS

	29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301	4(1)	5(5)	14(5)	5(5)	5(5)	4(1)	4(3)	5(5)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.005	L.000	L.005	L.0005	L.0005	L.05	MINIMUM
HIGH	.008	L.001	.023	L.005	L.005	.0006	L.005	L.05	MAXIMUM
AVERAGE	.003*		.010*			.0005*	.0017*		MOYENNE
STD.DEV.	.003*		.006*			.0001*	.0022*		ECART-TYPE
PERCNT:10TH			L.005						10 <sup>e</sup> PERCNT
25TH	.001*	L.001	L.005	L.005	L.005	.0005*	L.0005	L.05	25 <sup>e</sup>
MEDIAN 50TH	.002	L.001	.010	L.005	L.005	.0005	.0006*	L.05	50 <sup>e</sup> MEDIANE
75TH	.005	L.001	.013	L.005	L.005	.0006	.0028*	L.05	75 <sup>e</sup>
90TH			.019						90 <sup>e</sup>
SECONDARY CODE	.04L		.03			.01E	.03L		CODE DE SECOURS

	82002L LEAD TOTAL Pb	82104L LEAD DISSOLVED Pb	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MPN	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	MG/L	MG/L	NO/ML	NO/ML	MG/L	MG/L	
SAMPLES(FLAGS) 0301	4(1)	5(4)	1(0)	1(0)	21(0)	21(0)	ECHANTILLONS(IND.)
LOW	L.001	L.001	7.	2.	128.	94.	MINIMUM
HIGH	.004	.001	7.	2.	334.	164.	MAXIMUM
AVERAGE	.003*	.001*			171.	124.	MOYENNE
STD.DEV.	.001*	.000*			50.	23.	ECART-TYPE
PERCNT:10TH					136.	96.	10 <sup>e</sup> PERCNT
25TH	.001*	L.001			144.	104.	25 <sup>e</sup>
MEDIAN 50TH	.003	L.001			156.	116.	50 <sup>e</sup> MEDIANE
75TH	.004	L.001			166.	144.	75 <sup>e</sup>
90TH					230.	154.	90 <sup>e</sup>
SECONDARY CODE	.04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0017** LAT. **55 D 8 M 0 S** LONG. **121 D 3 M 0 S**UTM **10 624400E 6111200 N**  
MAR 09, 1977 TO/À SEP 14, 1977WOLVERINE RIVER BELOW BULLMOOSE CREEK,  
BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PTHHALEIN	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>9(0)</b>	<b>6(0)</b>	<b>9(0)</b>	<b>8(2)</b>	<b>8(0)</b>	<b>9(0)</b>	<b>9(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>179.</b>	<b>0.</b>	<b>88.5</b>	<b>L5.</b>	<b>.8</b>	<b>8.2</b>	<b>86.8</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>342.</b>	<b>0.</b>	<b>170.</b>	<b>40.</b>	<b>22.</b>	<b>8.3</b>	<b>165.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>243.</b>	<b>.0</b>	<b>122.6</b>	<b>14.*</b>	<b>11.3</b>		<b>119.0</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>59.</b>	<b>.0</b>	<b>31.1</b>	<b>12.*</b>	<b>9.5</b>		<b>28.7</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>206.</b>	<b>0.</b>	<b>103.</b>	<b>5.*</b>	<b>2.3</b>	<b>8.3</b>	<b>99.1</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>222.</b>	<b>.0</b>	<b>110.</b>	<b>13.</b>	<b>9.9</b>	<b>8.3</b>	<b>109.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>263.</b>	<b>0.</b>	<b>135.</b>	<b>18.</b>	<b>21.5</b>	<b>8.3</b>	<b>134.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>9(0)</b>	<b>9(0)</b>			<b>1(0)</b>		<b>2(2)</b>	<b>1(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>24.9</b>	<b>6.4</b>			<b>7.8</b>		<b>L.002</b>	<b>.5</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>48.7</b>	<b>12.</b>			<b>7.8</b>		<b>L.002</b>	<b>.5</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>34.64</b>	<b>8.8</b>							<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>8.88</b>	<b>2.1</b>							<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>28.2</b>	<b>7.8</b>							<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>31.</b>	<b>7.9</b>					<b>L.002</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>37.8</b>	<b>9.8</b>							<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE			<b>02E</b>							CODE DE SECOURS

		07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
	SUBM ID	KJELDAHL MG/L	NO3 & NO2 MG/L	ORGANIC MG/L	AMMONIA MG/L	N MG/L	ORTHO PO4 MG/L	P MG/L	ORGANIC C MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>8(0)</b>	<b>8(6)</b>		<b>2(1)</b>	<b>8(0)</b>	<b>2(1)</b>	<b>8(0)</b>	<b>2(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.1</b>	<b>L.02</b>		<b>L.005</b>	<b>.1</b>	<b>L.003</b>	<b>.005</b>	<b>3.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>2.</b>	<b>.05</b>		<b>.011</b>	<b>2.05</b>	<b>.005</b>	<b>.77</b>	<b>4.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.40</b>	<b>.024*</b>		<b>.008*</b>	<b>.40</b>	<b>.004*</b>	<b>.126</b>	<b>3.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.65</b>	<b>.011*</b>		<b>.004*</b>	<b>.67</b>	<b>.001*</b>	<b>.263</b>	<b>.7</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.14</b>	<b>L.020</b>			<b>.14</b>		<b>.008</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.17</b>	<b>L.020</b>		<b>.008*</b>	<b>.18</b>	<b>.004*</b>	<b>.029</b>	<b>3.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.23</b>	<b>.020*</b>			<b>.23</b>		<b>.079</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0017 LAT. 55 D 8 M 0 S LONG. 121 D 3 M 0 S

UTM 10 624400E 6111200 N  
APR 20 1977 TO/A SEP 14 1977WOLVERINE RIVER BELOW BULLMOOSE CREEK  
BRITISH COLUMBIA

	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007I NICKEL TOTAL	
SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS) 0301	7(0)	1(0)		2(2)	3(1)	3(0)	2(1)	3(2)	ECHANTILLONS(IND.)
LOW	10.8	.03		L.005	L.02	.2	L.1	L.01	MINIMUM
HIGH	13.	.03		L.005	.32	30.	.1	.04	MAXIMUM
AVERAGE	11.5				.12*	10.50	.10*	.020*	MOYENNE
STD.DEV.	.9				.17*	16.90	.00*	.017*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	10.8								25 <sup>e</sup>
MEDIAN 50TH	11.			L.005	.02	1.3	.10*	L.01	50 <sup>e</sup> MEDIANE
75TH	12.								75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E			04E			02E	CODE DE SECOURS

	29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG UG L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		
SAMPLES(FLAGS) 0301	2(1)	2(2)	3(1)	2(2)	1(1)	2(0)	1(1)	2(2)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.005	L.005	L.005	.0008	L.0005	L.05	MINIMUM
HIGH	.002	L.001	.023	L.005	L.005	.0022	L.0005	L.05	MAXIMUM
AVERAGE	.001*		.011*			.0015			MOYENNE
STD.DEV.	.001*		.010*			.0010			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	.001*	L.001	.005	L.005		.0015		L.05	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L		03L			01E			CODE DE SECOURS

	82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	36000E COLIFORMS TOTAL MPN NO/ML	36010E COLIFORMS FECAL MF NO/ML	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	MG/L	MG/L	NO/ML	NO/ML	MG/L	MG/L	
SAMPLES(FLAGS) 0301	3(2)	2(2)	1(0)	1(1)	8(0)	9(0)	ECHANTILLONS(IND.)
LOW	L.001	L.001	2.	L.2.	138.	104.	MINIMUM
HIGH	.015	L.001	2.	L.2.	246.	188.	MAXIMUM
AVERAGE	.006*				180.	143.	MOYENNE
STD.DEV.	.008*				34.	31.	ECART-TYPE
PERCNT:10TH							10 <sup>e</sup> PERCNT
25TH					157.	122.	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001			176.	130.	50 <sup>e</sup> MEDIANE
75TH					195.	162.	75 <sup>e</sup>
90TH							90 <sup>e</sup>
SECONDARY CODE	04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0018** LAT. **55 D 10 M 0 S** LONG. **120 D 56 M 0 S**UTM **10 631600E 6115000 N**  
MAR 09, 1977 TO/A SEP 13, 1978QUALITY CREEK AT WOOD PRESERVERS CAMP,  
BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PTHALEIN	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>23(0)</b>	<b>11(0)</b>	<b>23(0)</b>	<b>23(0)</b>	<b>22(0)</b>	<b>24(0)</b>	<b>10(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>242.</b>	<b>0.</b>	<b>127.</b>	<b>5.</b>	<b>.9</b>	<b>8.</b>	<b>125.</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>390.</b>	<b>.7</b>	<b>203.</b>	<b>80.</b>	<b>24.</b>	<b>8.3</b>	<b>205.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>304.</b>	<b>.1</b>	<b>161.0</b>	<b>26.</b>	<b>3.9</b>		<b>166.0</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>39.</b>	<b>.2</b>	<b>21.9</b>	<b>14.</b>	<b>4.7</b>		<b>25.8</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>255.</b>	<b>0.</b>	<b>142.</b>	<b>15.</b>	<b>1.5</b>	<b>8.</b>	<b>130.5</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>279.</b>	<b>0.</b>	<b>146.</b>	<b>20.</b>	<b>1.9</b>	<b>8.1</b>	<b>153.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>295.</b>	<b>0.</b>	<b>153.</b>	<b>20.</b>	<b>2.7</b>	<b>8.2</b>	<b>167.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>338.</b>	<b>.1</b>	<b>177.</b>	<b>30.</b>	<b>4.2</b>	<b>8.3</b>	<b>181.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>362.</b>	<b>.2</b>	<b>197.</b>	<b>30.</b>	<b>5.3</b>	<b>8.3</b>	<b>203.5</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>23(0)</b>	<b>23(0)</b>			<b>5(5)</b>	<b>1(1)</b>	<b>1(1)</b>	<b>14(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>35.1</b>	<b>9.4</b>			<b>L5.</b>	<b>L.01</b>	<b>L.002</b>	<b>.5</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>58.</b>	<b>14.6</b>			<b>L5.</b>	<b>L.01</b>	<b>L.002</b>	<b>.6</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>45.03</b>	<b>11.6</b>						<b>.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>6.64</b>	<b>1.5</b>						<b>.0</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>37.8</b>	<b>9.7</b>						<b>.5</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>40.8</b>	<b>10.5</b>			<b>L5.</b>			<b>.5</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>42.8</b>	<b>11.1</b>			<b>L5.</b>			<b>.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>49.7</b>	<b>12.9</b>			<b>L5.</b>			<b>.6</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>56.5</b>	<b>13.8</b>						<b>.6</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
	SUBM ID	KJELDAHL N MG/L	NO3 & NO2 N MG/L	ORGANIC N MG/L	AMMONIA N MG/L	N MG/L	ORTHO PO4 MG/L	P MG/L	ORGANIC C MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>21(0)</b>	<b>20(11)</b>	<b>1(0)</b>	<b>13(1)</b>	<b>21(0)</b>	<b>6(6)</b>	<b>21(0)</b>	<b>1(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.22</b>	<b>L.02</b>	<b>.26</b>	<b>.006</b>	<b>.22</b>	<b>L.003</b>	<b>.005</b>	<b>9.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.98</b>	<b>.07</b>	<b>.26</b>	<b>L.02</b>	<b>1.04</b>	<b>L.003</b>	<b>.3</b>	<b>9.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.29</b>	<b>.025*</b>		<b>.011*</b>	<b>.31</b>		<b>.026</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.16</b>	<b>.014*</b>		<b>.004*</b>	<b>.17</b>		<b>.063</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.23</b>	<b>L.020</b>		<b>.007</b>	<b>.24</b>		<b>.006</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.24</b>	<b>L.020</b>		<b>.008</b>	<b>.25</b>	<b>L.003</b>	<b>.007</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.26</b>	<b>L.020</b>		<b>.01</b>	<b>.27</b>	<b>L.003</b>	<b>.009</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.27</b>	<b>.020</b>		<b>.014</b>	<b>.29</b>	<b>L.003</b>	<b>.012</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.28</b>	<b>.045</b>		<b>.016</b>	<b>.3</b>		<b>.026</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0018 LAT. 55 D 10 M 0 S LONG. 120 D 56 M 0 S

UTM 10 631600E 6115000N  
APR 20 1977 TO/A SEP 13 1978QUALITY CREEK AT WOOD PRESERVERS CAMP  
BRITISH COLUMBIA

		08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28002L NICKEL TOTAL	
	SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS)	0301	14(0)	2(0)		2(2)	17(1)	17(0)	12(2)	2(2)	ECHANTILLONS(IND.)
LOW		7.8	.01		L.005	L.02	.2	L.1	L.01	MINIMUM
HIGH		14.4	.02		L.005	.14	1.9	.3	L.01	MAXIMUM
AVERAGE		11.4	.02			.03*	.47	.13*		MOYENNE
STD.DEV.		1.8	.01			.03*	.39	.06*		ECART-TYPE
PERCNT:10TH		9.6				.02	.3	L.1		10 <sup>e</sup> PERCNT
25TH		9.8				.02	.3	.10		25 <sup>e</sup>
MEDIAN 50TH		11.9	.02		L.005	.02	.3	.10	L.010	50 <sup>e</sup> MEDIANE
75TH		12.5				.03	.5	.10		75 <sup>e</sup>
90TH		13.5				.04	.7	.2		90 <sup>e</sup>
SECONDARY CODE			02E			04E			02E	CODE DE SECOURS

		29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS)	0301	3(2)	2(2)	3(3)	2(2)	2(2)	2(1)	2(2)	1(1)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.005	L.005	L.005	.0007	L.0005	L.05	MINIMUM
HIGH		.001	L.001	L.005	L.005	L.005	L.01	L.0005	L.05	MAXIMUM
AVERAGE		.001*					.0053*			MOYENNE
STD.DEV.		.000*					.0066*			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	L.005	L.005	L.005	.0053*	L.0005		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		04L		03L			01E			CODE DE SECOURS

		82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MF	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	SUBM ID	MG/L	MG/L	NO./ML	NO./ML	MG/L	MG/L	
SAMPLES(FLAGS)	0301	3(3)	2(2)	6(2)	6(5)	22(0)	23(0)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L2.	L2.	174.	166.	MINIMUM
HIGH		L.001	L.001	110.	11.	244.	234.	MAXIMUM
AVERAGE				21.*	3.*	204.	195.	MOYENNE
STD.DEV.				44.*	4.*	20.	20.	ECART-TYPE
PERCNT:10TH						188.	172.	10 <sup>e</sup> PERCNT
25TH				L2.	L2.	190.	184.	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	4.	L2.	197.	188.	50 <sup>e</sup> MEDIANE
75TH				5.	L2.	208.	204.	75 <sup>e</sup>
90TH						236.	228.	90 <sup>e</sup>
SECONDARY CODE		04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0019** LAT. **55 D 7 M 0 S** LONG. **121 D 1 M 0 S**UTM **10 626600E 6109400 N**

MAR 09, 1977 TO/A SEP 13, 1978

FLATBED CREEK APPROX 0.8 KM ABOVE  
CONFLUENCE WITH MURRAY RIVER

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b> 0301	25(0)	11(0)	25(0)	22(0)	23(0)	27(0)	15(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
LOW	133.	0.	66.	5.	.9	7.8	78.	1.2	<b>MINIMUM</b>
HIGH	356.	.2	180.	60.	62.	8.5	146.	1.2	<b>MAXIMUM</b>
AVERAGE	212.	.0	108.3	30.	15.2		113.5	1.2	<b>MOYENNE</b>
STD.DEV.	62.	.1	35.1	18.	17.8		27.1	.0	<b>ECART-TYPE</b>
PERCNT:10TH	143.	0.	67.7	10.	1.2	7.8	80.8		10 <sup>e</sup> PERCNT
25TH	165.	0.	82.7	15.	3.1	7.9	88.1		25 <sup>e</sup>
MEDIAN 50TH	185.	0.	93.3	30.	9.8	8.3	100.	1.2	50 <sup>e</sup> MEDIANE
75TH	274.	0.	142.	40.	20.	8.4	143.		75 <sup>e</sup>
90TH	284.	0.	153.	60.	46.	8.5	145.		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
SUBM ID	CA MG/L	MG	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	
<b>SAMPLES(FLAGS)</b> 0301	25(0)	25(0)	2(0)	2(0)	17(8)	1(1)	1(1)	17(0)	<b>ECHANTILLONS(IND.)</b>
LOW	19.	4.5	1.	173.	L5.	L.1	L.002	.3	<b>MINIMUM</b>
HIGH	51.	12.9	1.	175.	10.3	L.1	L.002	1.1	<b>MAXIMUM</b>
AVERAGE	30.61	7.8	1.	174.	6.9*			.7	<b>MOYENNE</b>
STD.DEV.	10.02	2.5	0.	2.	2.3*			.3	<b>ECART-TYPE</b>
PERCNT:10TH	19.2	4.8			L5.			.3	10 <sup>e</sup> PERCNT
25TH	23.1	6.			L5.			.4	25 <sup>e</sup>
MEDIAN 50TH	26.	6.9	1.	174.	5.4			.8	50 <sup>e</sup> MEDIANE
75TH	40.5	10.			9.3			.8	75 <sup>e</sup>
90TH	43.5	10.8			10.2			1.1	90 <sup>e</sup>
SECONDARY CODE		02E							CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
SUBM ID	KJELDAHL N MG/L	NO3 & NO2 MG/L	ORGANIC N MG/L	AMMONIA MG/L	MG/L	ORTHO PO4 MG/L	P MG/L	ORGANIC C MG/L	
<b>SAMPLES(FLAGS)</b> 0301	23(0)	23(21)	1(0)	18(0)	23(0)	2(1)	23(0)	1(0)	<b>ECHANTILLONS(IND.)</b>
LOW	.09	L.02	.18	.005	.09	L.003	.004	8.	<b>MINIMUM</b>
HIGH	.61	.02	.18	.02	.61	.003	.4	8.	<b>MAXIMUM</b>
AVERAGE	.26	.020*		.010	.26	.003*	.049		<b>MOYENNE</b>
STD.DEV.	.13	.000*		.005	.13	.000*	.085		<b>ECART-TYPE</b>
PERCNT:10TH	.14	L.02		.005	.14		.005		10 <sup>e</sup> PERCNT
25TH	.17	L.02		.006	.17		.009		25 <sup>e</sup>
MEDIAN 50TH	.22	L.02		.009	.22	.003*	.02		50 <sup>e</sup> MEDIANE
75TH	.29	L.02		.016	.29		.054		75 <sup>e</sup>
90TH	.43	L.02		.019	.43		.12		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0019 LAT. 55 D 7 M 0 S LONG. 121 D 1 M 0 S

UTM 10 626600E 6109400 N  
APR 20, 1977 TO/A SEP 13, 1978FLATBED CREEK APPROX 0.8 KM ABOVE  
CONFLUENCE WITH MURRAY RIVER

		08102F OXYGEN DISSOLVED	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
	SUBM ID	DO MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS)	0301	14(0)	2(0)		2(2)	19(10)	19(2)	13(5)	3(2)	ECHANTILLONS(IND.)
LOW		8.6	.02		L.005	L.02	L.1	L.1	L.01	MINIMUM
HIGH		13.4	1.2		L.005	.14	15.	.1	.02	MAXIMUM
AVERAGE		11.1	.61			.03*	1.79*	.10*	.013*	MOYENNE
STD.DEV.		1.5	.83			.03*	3.43*	.00*	.006*	ECART-TYPE
PERCNT:10TH		9.5				L.02	L.1	L.1		10 <sup>e</sup> PERCNT
25TH		9.8				L.02	.2	L.1		25 <sup>e</sup>
MEDIAN 50TH		11.2	.61		L.005	L.02	.7	.1	L.01	50 <sup>e</sup> MEDIANE
75TH		12.4				.03	1.3	.1		75 <sup>e</sup>
90TH		13.				.05	4.1	.1		90 <sup>e</sup>
SECONDARY CODE			02E			04E			02E	CODE DE SECOURS

		29005L COPPER TOTAL	29107L COPPER DISSOLVED	30005L ZINC TOTAL	30107L ZINC DISSOLVED	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	
	SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	UG L	
SAMPLES(FLAGS)	0301	2(1)	1(1)	3(2)	1(1)	2(2)	2(1)	2(2)	1(1)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.005	L.005	L.005	L.0005	L.0005	L.05	MINIMUM
HIGH		.002	L.001	.017	L.005	L.005	.0005	L.0005	L.05	MAXIMUM
AVERAGE		.001*		.009*			.0005*			MOYENNE
STD.DEV.		.001*		.007*			.0000*			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		.001*		L.005		L.005	.0005*	L.0005		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		04L		03L			01E	03L		CODE DE SECOURS

		82002L LEAD TOTAL	82104L LEAD DISSOLVED	36000E COLIFORMS TOTAL	36010E COLIFORMS FECAL	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	SUBM ID	PB MG/L	PB MG/L	MPN NO/ML	MF NO/ML	MG/L	MG/L	
SAMPLES(FLAGS)	0301	3(2)	1(1)	7(0)	7(2)	24(0)	25(0)	ECHANTILLONS(IND.)
LOW		L.001	L.001	2.	L2.	116.	94.	MINIMUM
HIGH		.005	L.001	130.	27.	744.	210.	MAXIMUM
AVERAGE		.002*		28.	8.*	194.	138.	MOYENNE
STD.DEV.		.002*		45.	10.*	122.	35.	ECART-TYPE
PERCNT:10TH						128.	110.	10 <sup>e</sup> PERCNT
25TH				5.	L2.	136.	110.	25 <sup>e</sup>
MEDIAN 50TH		L.001		13.	2.	179.	120.	50 <sup>e</sup> MEDIANE
75TH				17.	17.	193.	174.	75 <sup>e</sup>
90TH						220.	188.	90 <sup>e</sup>
SECONDARY CODE		04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0020** LAT. **55 D 8 M 0 S** LONG. **121 D 54 M 0 S**UTM **10 570200E 6110000 N**  
MAR 09, 1977 TO/À SEP 13, 1977SUKUNKA RIVER ABOVE WINDFALL CREEK  
AT 100 MILE LINE BRIDGE

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b> 0301	9(0)	6(0)	9(0)	9(3)	8(0)	9(0)	8(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>168.</b>	<b>0.</b>	<b>80.9</b>	<b>L5.</b>	<b>.4</b>	<b>8.1</b>	<b>84.3</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>250.</b>	<b>0.</b>	<b>131.</b>	<b>10.</b>	<b>6.5</b>	<b>8.3</b>	<b>127.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>203.</b>	<b>.0</b>	<b>102.8</b>	<b>6.*</b>	<b>2.5</b>		<b>99.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>31.</b>	<b>.0</b>	<b>16.7</b>	<b>2.*</b>	<b>2.1</b>		<b>14.5</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>179.</b>	<b>0.</b>	<b>94.</b>	<b>L5.</b>	<b>.6</b>	<b>8.2</b>	<b>90.0</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>193.</b>	<b>.0</b>	<b>97.8</b>	<b>5.</b>	<b>2.4</b>	<b>8.2</b>	<b>94.6</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>231.</b>	<b>0.</b>	<b>111.</b>	<b>5.</b>	<b>3.5</b>	<b>8.3</b>	<b>109.5</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	
<b>SAMPLES(FLAGS)</b> 0301	9(0)	9(0)			1(1)	1(1)	1(1)	1(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>23.</b>	<b>5.6</b>			<b>L5.</b>	<b>L.1</b>	<b>L.002</b>	<b>L.1</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>37.8</b>	<b>8.9</b>			<b>L5.</b>	<b>L.1</b>	<b>L.002</b>	<b>L.1</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>29.68</b>	<b>7.0</b>							<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>4.81</b>	<b>1.2</b>							<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>27.1</b>	<b>6.4</b>							<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>28.3</b>	<b>6.6</b>							<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>31.2</b>	<b>8.</b>							<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		02E							CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
SUBM ID	N MG/L	N MG/L	ORGANIC MG/L	AMMONIA MG/L	N MG/L	PO4 MG/L	P MG/L	ORGANIC C MG/L	
<b>SAMPLES(FLAGS)</b> 0301	7(0)	7(0)	1(0)	2(0)	7(0)	2(2)	7(1)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.08</b>	<b>.08</b>	<b>.07</b>	<b>.007</b>	<b>.16</b>	<b>L.003</b>	<b>L.003</b>	<b>3.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.18</b>	<b>.42</b>	<b>.07</b>	<b>.011</b>	<b>.55</b>	<b>L.003</b>	<b>.028</b>	<b>3.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.12</b>	<b>.229</b>		<b>.009</b>	<b>.35</b>		<b>.010*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.03</b>	<b>.125</b>		<b>.003</b>	<b>.14</b>		<b>.009*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.1</b>	<b>.1</b>			<b>.21</b>		<b>.003</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.12</b>	<b>.24</b>		<b>.009</b>	<b>.34</b>	<b>L.003</b>	<b>.007</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.13</b>	<b>.31</b>			<b>.49</b>		<b>.015</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00CB07FB0020 LAT. 55 D 8 M 0 S LONG. 121 D 54 M 0 S

UTM 10 570200E 6110000N  
APR 21 1977 TO A SEP 13 1977SUKUNKA RIVER ABOVE WINDFALL CREEK  
AT 100 MILE LINE BRIDGE

	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28002L NICKEL TOTAL	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	7(0)	2(0)	1(1)	2(2)	6(6)	7(0)	1(1)	5(5)	ECHANTILLONS(IND.)
LOW	9.9	.01	L.001	L.005	L.02	.1	L.1	L.01	MINIMUM
HIGH	11.8	.28	L.001	L.005	L.02	.5	L.1	L.01	MAXIMUM
AVERAGE	10.9	.15				.21			MOYENNE
STD.DEV.	7	.19				.15			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	10				L.02	.1		L.01	25 <sup>e</sup>
MEDIAN 50TH	11.2	.15		L.005	L.02	.2		L.01	50 <sup>e</sup> MEDIANE
75TH	11.2				L.02	.3		L.01	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E			4E			02E	CODE DE SECOURS

	29005L COPPER TOTAL	29107L COPPER DISSOLVED	30005L ZINC TOTAL	30107L ZINC DISSOLVED	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301	6(4)	2(2)	7(5)	1(1)	2(2)	1(0)	2(2)	1(1)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.005	L.005	L.005	.001	L.0005	L.05	MINIMUM
HIGH	.002	L.001	.014	L.005	L.005	.001	L.0005	L.05	MAXIMUM
AVERAGE	.001*		.007*						MOYENNE
STD.DEV.	.000*		.004*						ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.001		L.005						25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001	L.005		L.005		L.0005		50 <sup>e</sup> MEDIANE
75TH	.001		.012						75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	4E		5E			01E			CODE DE SECOURS

	82002L LEAD TOTAL	82104L LEAD DISSOLVED	36000E COLIFORMS TOTAL	36010E COLIFORMS FECAL	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	MG/L	MG/L	MPN NO./ML	MPN NO./ML	MG/L	MG/L	
SAMPLES(FLAGS) 0301	6(4)	1(1)	2(1)	2(1)	7(0)	9(0)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.2	L.2	94	86	MINIMUM
HIGH	.004	L.001	23.	5.	170.	146.	MAXIMUM
AVERAGE	.002*		12.*	3.*	122.	111.	MOYENNE
STD.DEV.	.001*		15.*	2.*	25.	20.	ECART-TYPE
PERCNT:10TH							10 <sup>e</sup> PERCNT
25TH	L.001				106	94	25 <sup>e</sup>
MEDIAN 50TH	L.001		12.*	3.*	114.	108.	50 <sup>e</sup> MEDIANE
75TH	.003				136	126.	75 <sup>e</sup>
90TH							90 <sup>e</sup>
SECONDARY CODE	34L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB-BASIN

STATION **00CB07FB0021** LAT. **55 D 10 M 0 S** LONG. **121 D 47 M 0 S**

UTM **10 577600E 6113800 N**  
MAR 09, 1977 TO/A AUG 16, 1977

WINDFALL CREEK AT 100 LINE ROAD  
CROSSING, BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>6(0)</b>	<b>3(0)</b>	<b>6(0)</b>	<b>6(1)</b>	<b>5(0)</b>	<b>6(0)</b>	<b>5(0)</b>	<b>1(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>183.</b>	<b>0.</b>	<b>94.6</b>	<b>15.</b>	<b>.6</b>	<b>8.2</b>	<b>94.4</b>	<b>1.7</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>278.</b>	<b>.2</b>	<b>141.</b>	<b>15.</b>	<b>3.7</b>	<b>8.5</b>	<b>134.</b>	<b>1.7</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>225.</b>	<b>.1</b>	<b>116.9</b>	<b>8.*</b>	<b>2.2</b>		<b>111.2</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>40.</b>	<b>.1</b>	<b>19.7</b>	<b>4.*</b>	<b>1.5</b>		<b>18.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>193.</b>		<b>99.</b>	<b>5.</b>	<b>.7</b>	<b>8.3</b>	<b>97.5</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>218.</b>	<b>0.</b>	<b>115.5</b>	<b>8.</b>	<b>2.3</b>	<b>8.3</b>	<b>102.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>260.</b>		<b>136.</b>	<b>10.</b>	<b>3.6</b>	<b>8.3</b>	<b>128.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

		20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>6(0)</b>	<b>6(0)</b>	<b>1(0)</b>	<b>1(0)</b>					<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>29.3</b>	<b>5.2</b>	<b>2.</b>	<b>152.</b>					<b>MINIMUM</b>
<b>HIGH</b>		<b>41.8</b>	<b>9.</b>	<b>2.</b>	<b>152.</b>					<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>35.05</b>	<b>7.2</b>							<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>5.36</b>	<b>1.6</b>							<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>29.6</b>	<b>6.1</b>							<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>35.00</b>	<b>6.9</b>							<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>39.6</b>	<b>9.</b>							<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>			<b>02E</b>							<b>CODE DE SECOURS</b>

		07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	C MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>5(0)</b>	<b>5(4)</b>		<b>1(0)</b>	<b>5(0)</b>	<b>1(1)</b>	<b>4(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.07</b>	<b>L.02</b>		<b>.011</b>	<b>.07</b>	<b>L.003</b>	<b>.003</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.1</b>	<b>.04</b>		<b>.011</b>	<b>.12</b>	<b>L.003</b>	<b>.018</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.08</b>	<b>.024*</b>			<b>.09</b>		<b>.011</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.01</b>	<b>.009*</b>			<b>.02</b>		<b>.007</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.07</b>	<b>L.02</b>			<b>.07</b>		<b>.005</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.07</b>	<b>L.02</b>			<b>.07</b>		<b>.011</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.08</b>	<b>L.02</b>			<b>.1</b>		<b>.017</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0021 LAT. 55 D 10 M 0 S LONG. 121 D 47 M 0 S

UTM 10 577600E 6113800 N  
APR 21, 1977 TO/A AUG 16, 1977WINDFALL CREEK AT 100 LINE ROAD  
CROSSING BRITISH COLUMBIA

		08102F OXYGEN DISSOLVED	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
	SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	N MG/L	
SAMPLES(FLAGS)	0301	4(0)	1(0)		2(2)	2(2)	2(1)		2(2)	ECHANTILLONS(IND.)
LOW		9.4	.1		L.005	L.02	L.1		L.01	MINIMUM
HIGH		12.8	.1		L.005	L.02	.2		L.01	MAXIMUM
AVERAGE		11.2					.15*			MOYENNE
STD.DEV.		1.4					.07*			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		10.3								25 <sup>e</sup>
MEDIAN 50TH		11.3			L.005	L.02	.15*		L.010	50 <sup>e</sup> MEDIANE
75TH		12.1								75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			02E			04E			02E	CODE DE SECOURS

		29005L COPPER TOTAL	29107L COPPER DISSOLVED	30005L ZINC TOTAL	30107L ZINC DISSOLVED	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	
	SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L		
SAMPLES(FLAGS)	0301	2(1)		2(2)		2(2)	2(0)	2(2)		ECHANTILLONS(IND.)
LOW		L.001		L.005		L.005	.0008	L.0005		MINIMUM
HIGH		.001		L.005		L.005	.0016	L.0005		MAXIMUM
AVERAGE		.001*					.0012			MOYENNE
STD.DEV.		.000*					.0006			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		.001*		L.005		L.005	.0012	L.0005		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		04L		03L			01E			CODE DE SECOURS

		82002L LEAD TOTAL	82104L LEAD DISSOLVED	36000E COLIFORMS TOTAL	36010E COLIFORMS FECAL	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	SUBM ID	PB MG/L	PB MG/L	MPN NO/ML	MF NO/ML	MG/L	MG/L	
SAMPLES(FLAGS)	0301	2(2)				5(0)	6(0)	ECHANTILLONS(IND.)
LOW		L.001				104.	96.	MINIMUM
HIGH		L.001				172.	168.	MAXIMUM
AVERAGE						136.	131.	MOYENNE
STD.DEV.						27.	26.	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH						114.	108.	25 <sup>e</sup>
MEDIAN 50TH		L.001				142.	134.	50 <sup>e</sup> MEDIANE
75TH						146.	144.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE		04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0022** LAT. **55 D 14 M 0 S** LONG. **121 D 39 M 0 S**UTM **10 585800E 6121400 N**  
APR 21, 1977 TO/À SEP 13, 1977CHAMBERLAIN CREEK AT 100 LINE ROAD  
CROSSING, BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b> 0301	6(0)	4(0)	6(0)	6(1)	5(0)	6(0)	6(0)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>142.</b>	<b>0.</b>	<b>71.3</b>	<b>L5.</b>	<b>1.3</b>	<b>8.1</b>	<b>70.7</b>	<b>1.5</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>302.</b>	<b>0.</b>	<b>153.</b>	<b>30.</b>	<b>11.</b>	<b>8.5</b>	<b>154.</b>	<b>1.5</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>209.</b>	<b>.0</b>	<b>108.7</b>	<b>13.*</b>	<b>4.6</b>		<b>103.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>60.</b>	<b>.0</b>	<b>28.7</b>	<b>10.*</b>	<b>4.2</b>		<b>30.7</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>166.</b>	<b>.0</b>	<b>85.1</b>	<b>5.</b>	<b>1.9</b>	<b>8.1</b>	<b>82.5</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>203.</b>	<b>.0</b>	<b>110.5</b>	<b>10.</b>	<b>1.9</b>	<b>8.2</b>	<b>98.5</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>241.</b>	<b>.0</b>	<b>122.</b>	<b>20.</b>	<b>6.8</b>	<b>8.3</b>	<b>119.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	
<b>SAMPLES(FLAGS)</b> 0301	6(0)	6(0)	1(0)	1(0)					<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>20.</b>	<b>5.2</b>	<b>2.</b>	<b>141.</b>					<b>MINIMUM</b>
<b>HIGH</b>	<b>41.7</b>	<b>11.8</b>	<b>2.</b>	<b>141.</b>					<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>30.18</b>	<b>8.1</b>							<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>7.82</b>	<b>2.4</b>							<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>23.2</b>	<b>6.4</b>							<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>31.35</b>	<b>7.9</b>							<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>33.5</b>	<b>9.3</b>							<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		02E							CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	P04 MG/L	P MG/L	C MG/L	
<b>SAMPLES(FLAGS)</b> 0301	6(0)	6(6)		1(0)		1(1)	6(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.07</b>	<b>L.02</b>		<b>.011</b>		<b>L.003</b>	<b>.005</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>.14</b>	<b>L.02</b>		<b>.011</b>		<b>L.003</b>	<b>.024</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.10</b>						<b>.013</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.03</b>						<b>.009</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.08</b>	<b>L.02</b>					<b>.005</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.08</b>	<b>L.020</b>					<b>.011</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.14</b>	<b>L.02</b>					<b>.022</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0022 LAT. 55 D 14 M 0 S LONG. 121 D 39 M 0 S

UTM 10 585800E 6121400N

APR 21 1977 TO/A SEP 13 1977

CHAMBERLAIN CREEK AT 100 LINE ROAD  
CROSSING BRITISH COLUMBIA

	08102F OXYGEN DISSOLVED	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	26104L NICKEL TOTAL	
SUBM ID	DO MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	N MG/L	
SAMPLES(FLAGS) 0301	5(0)	2(0)		2(2)	2(2)	2(0)		2(2)	ECHANTILLONS(IND.)
LOW	10.	.01		L.005	L.02	.1		L.01	MINIMUM
HIGH	12.4	.22		L.005	L.02	.3		L.01	MAXIMUM
AVERAGE	11.4	.12				.20			MOYENNE
STD.DEV.	9	.15				.14			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	11.2								25 <sup>e</sup>
MEDIAN 50TH	11.3	.12		L.005	L.02	.20		L.010	50 <sup>e</sup> MEDIANE
75TH	12.1								75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E			04E			02E	CODE DE SECOURS

	29005L COPPER TOTAL	29107L COPPER DISSOLVED	30005L ZINC TOTAL	30107L ZINC DISSOLVED	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	
SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG UG/L	
SAMPLES(FLAGS) 0301			2(2)		2(2)	2(2)	2(2)		ECHANTILLONS(IND.)
LOW			L.005		L.005	L.0005	L.0005		MINIMUM
HIGH			L.005		L.005	L.0006	L.0005		MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH			L.005		L.005	L.0005	L.0005		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			03L			01E	03L		CODE DE SECOURS

	82002L LEAD TOTAL	82104L LEAD DISSOLVED	36000E COLIFORMS TOTAL	36010E COLIFORMS FECAL	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	PB MG/L	PB MG/L	MPN NO./ML	MF NO./ML	MG/L	MG/L	
SAMPLES(FLAGS) 0301	2(2)				5(0)	6(0)	ECHANTILLONS(IND.)
LOW	L.001				100.	90.	MINIMUM
HIGH	L.001				176.	172.	MAXIMUM
AVERAGE					135.	123.	MOYENNE
STD.DEV.					30.	33	ECART-TYPE
PERCNT:10TH							10 <sup>e</sup> PERCNT
25TH					112.	92	25 <sup>e</sup>
MEDIAN 50TH	L.001				142.	121.	50 <sup>e</sup> MEDIANE
75TH					144.	142.	75 <sup>e</sup>
90TH							90 <sup>e</sup>
SECONDARY CODE		04L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0023** LAT. **55 D 15 M 0 S** LONG. **121 D 39 M 0 S**UTM **10 585800E 6123200 N**  
MAY 04, 1977 TO/A SEP 13, 1977SKEETER CREEK AT 100 LINE ROAD  
CROSSING, BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)	4(0)	5(0)	4(0)	4(0)	5(0)	5(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
LOW	217.	0.	109.	5.	4.5	8.3	108.	2.4	MINIMUM
HIGH	325.	.2	170.	30.	44.	8.6	169.	4.4	MAXIMUM
AVERAGE	269.	.1	138.0	15.	21.3		138.6	3.4	MOYENNE
STD.DEV.	48.	.1	24.6	12.	19.4		25.0	1.4	ECART-TYPE
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	243.	.0	125.	5.	5.2	8.3	126.		25 <sup>e</sup>
<b>MEDIAN 50TH</b>	<b>246.</b>	<b>.0</b>	<b>130.</b>	<b>13.</b>	<b>18.4</b>	<b>8.3</b>	<b>131.</b>	<b>3.4</b>	<b>50<sup>e</sup> MEDIANE</b>
75TH	315.	.1	156.	25.	37.5	8.5	159.		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL PHENOL	06551L TANNIN AND LIGNIN LIG.SULPH.	
SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)	5(0)	2(0)	2(0)					<b>ECHANTILLONS(IND.)</b>
LOW	29.8	8.5	3.	188.					MINIMUM
HIGH	46.4	13.2	5.	195.					MAXIMUM
AVERAGE	37.32	10.9	4.	192.					MOYENNE
STD.DEV.	6.47	2.1	2.	5.					ECART-TYPE
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	33.9	9.7							25 <sup>e</sup>
<b>MEDIAN 50TH</b>	<b>35.5</b>	<b>10.</b>	<b>4.</b>	<b>192.</b>					<b>50<sup>e</sup> MEDIANE</b>
75TH	41.	13.1							75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E							CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC C	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)	5(0)			5(0)		5(0)		<b>ECHANTILLONS(IND.)</b>
LOW	.08	.02			.08		.006		MINIMUM
HIGH	.33	.05			.38		.192		MAXIMUM
AVERAGE	.18	.028			.20		.070		MOYENNE
STD.DEV.	.10	.013			.12		.075		ECART-TYPE
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	.1	.02			.1		.009		25 <sup>e</sup>
<b>MEDIAN 50TH</b>	<b>.18</b>	<b>.02</b>			<b>.18</b>		<b>.071</b>		<b>50<sup>e</sup> MEDIANE</b>
75TH	.21	.03			.24		.072		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00CB07FB0023 LAT 55° 15' 00" LONG 121° 39' 00"

TIM 10 585800 6123200

MAY 17 1977 TO/A SEP 13 1977

SKEETER CREEK AT 100 LINE ROAD  
CROSSING BRITISH COLUMBIA

	08102F OXYGEN DISSOLVED	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
SUBM ID	DO O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS) 0301	4(0)	2(0)	1(1)	2(1)	2(1)	2(0)		2(2)	ECHANTILLONS(IND.)
LOW	9.8	.02	L.001	L.005	L.02	.2		L.01	MINIMUM
HIGH	13.6	2.2	L.001	.006	.03	1.8		L.01	MAXIMUM
AVERAGE	11.5	1.11		.005*	.02*	1.00			MOYENNE
STD.DEV.	1.6	1.54		.001*	.01*	1.13			Ecart-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	10.4								25 <sup>e</sup>
MEDIAN 50TH	11.4	1.11		.005*	.02*	1.00		L.010	50 <sup>e</sup> MEDIANE
75TH	12.6								75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E			04E			02E	CODE DE SECOURS

	29005L COPPER TOTAL	29107L COPPER DISSOLVED	30005L ZINC TOTAL	30107L ZINC DISSOLVED	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	
SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG UG/L	
SAMPLES(FLAGS) 0301	2(1)			2(1)	2(2)	2(1)	2(2)		ECHANTILLONS(IND.)
LOW	L.001			L.005	L.005	L.0005	L.005		MINIMUM
HIGH	.002			.007	L.005	.0006	L.005		MAXIMUM
AVERAGE	.001*			.006*		.0005*			MOYENNE
STD.DEV.	.001*			.001*		.0001*			Ecart-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	.001*			.006*	L.005	.0005*	L.0050		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L					01E	03L		CODE DE SECOURS

	82002L LEAD TOTAL	82104L LEAD DISSOLVED	36000E COLIFORMS TOTAL	36010E COLIFORMS FECAL	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	PB MG/L	PB MG/L	MPN NO/ML	MF NO/ML	MG/L	MG/L	
SAMPLES(FLAGS) 0301	2(2)				4(0)	5(0)	ECHANTILLONS(IND.)
LOW	L.001				192.	128.	MINIMUM
HIGH	L.001				214.	194.	MAXIMUM
AVERAGE					203.	159.	MOYENNE
STD.DEV.					9.	30.	Ecart-TYPE
PERCNT:10TH							10 <sup>e</sup> PERCNT
25TH					196.	136.	25 <sup>e</sup>
MEDIAN 50TH	L.001				203.	152.	50 <sup>e</sup> MEDIANE
75TH					210.	186.	75 <sup>e</sup>
90TH							90 <sup>e</sup>
SECONDARY CODE	04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0024** LAT. **55 D 20 M 0 S** LONG. **121 D 44 M 0 S**UTM **10 580400 E 6132400 N**  
MAR 09, 1977 TO/A AUG 17, 1977BURNT RIVER NEAR CONFLUENCE WITH  
SUKUNKA RIVER, BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)	4(0)	5(0)	5(2)	5(0)	5(0)	5(0)		<b>ECHANTILLONS(IND.)</b>
LOW	169.	0.	84.3	L5.	.4	8.2	85.		<b>MINIMUM</b>
HIGH	253.	.2	129.	15.	5.2	8.3	133.		<b>MAXIMUM</b>
AVERAGE	202.	.1	101.8	9.*	2.1		104.0		<b>MOYENNE</b>
STD.DEV.	37.	.1	19.0	5.*	1.9		21.1		<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH	169.	.0	85.8	L5.	.7	8.3	86.9		<b>25<sup>e</sup></b>
MEDIAN 50TH	192.	.0	97.	5.	1.8	8.3	96.1		<b>50<sup>e</sup> MEDIANE</b>
75TH	227.	.1	113.	15.	2.4	8.3	119.		<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE									<b>CODE DE SECOURS</b>

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)	5(0)			2(1)	1(1)	2(1)	1(0)	<b>ECHANTILLONS(IND.)</b>
LOW	26.	4.7			L5.	L.1	L.002	.1	<b>MINIMUM</b>
HIGH	39.3	7.6			5.7	L.1	.003	.1	<b>MAXIMUM</b>
AVERAGE	31.18	5.9			5.3*		.002*		<b>MOYENNE</b>
STD.DEV.	5.81	1.2			.5*		.001*		<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH	26.1	5.							<b>25<sup>e</sup></b>
MEDIAN 50TH	29.6	5.6			5.3*		.002*		<b>50<sup>e</sup> MEDIANE</b>
75TH	34.9	6.4							<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE		02E							<b>CODE DE SECOURS</b>

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	C MG/L	
<b>SAMPLES(FLAGS)</b> 0301	4(0)	4(1)	1(0)	2(0)	4(0)	2(2)	4(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
LOW	.07	L.02	.08	.005	.09	L.003	.005	2.	<b>MINIMUM</b>
HIGH	.1	.15	.08	.01	.25	L.003	.012	4.	<b>MAXIMUM</b>
AVERAGE	.09	.083*		.008	.17		.008	3.0	<b>MOYENNE</b>
STD.DEV.	.01	.056*		.004	.07		.003	1.4	<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH	.08	.040*			.12		.005		<b>25<sup>e</sup></b>
MEDIAN 50TH	.09	.080		.008	.16	L.003	.007	3.0	<b>50<sup>e</sup> MEDIANE</b>
75TH	.10	.125			.21		.011		<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE									<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0024 LAT. 55 D 20 M 0 S LONG. 121 D 44 M 0 S

UTM 10 580400E 6132400 N  
MAR 09 1977 TO/A AUG 17 1977BURNT RIVER NEAR CONFLUENCE WITH  
SUKUNKA RIVER BRITISH COLUMBIA

		08102F OXYGEN DISSOLVED	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
	SUBM ID	DO MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS)	0301	4(0)	2(0)		2(2)	4(4)	5(1)	2(2)	4(4)	ECHANTILLONS(IND.)
LOW		10.	.01		L.005	L.02	L.1	L.1	L.01	MINIMUM
HIGH		12.5	.08		L.005	L.02	.4	L.1	L.01	MAXIMUM
AVERAGE		11.0	.05				.18*			MOYENNE
STD.DEV.		1.1	.05				.13*			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		10.2				L.02	.1		L.010	25 <sup>e</sup>
MEDIAN 50TH		10.6	.05		L.005	L.02	.1	L.10	L.010	50 <sup>e</sup> MEDIANE
75TH		11.7				L.02	.2		L.010	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			02E			04E			02E	CODE DE SECOURS

		29005L COPPER TOTAL	29107L COPPER DISSOLVED	30005L ZINC TOTAL	30107L ZINC DISSOLVED	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	
	SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG UG/L	
SAMPLES(FLAGS)	0301	5(4)	2(2)	5(4)	2(2)	3(3)	2(0)	3(3)	2(2)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.005	L.005	L.005	.0007	L.0005	L.05	MINIMUM
HIGH		.002	L.001	.011	L.005	L.005	.0018	L.0005	L.05	MAXIMUM
AVERAGE		.001*		.006*			.0013			MOYENNE
STD.DEV.		.000*		.003*			.0008			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.001		L.005						25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	L.005	L.005	L.005	.0013	L.0005	L.05	50 <sup>e</sup> MEDIANE
75TH		L.001		L.005						75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		04L		03L			01E	03L		CODE DE SECOURS

		82002L LEAD TOTAL	82104L LEAD DISSOLVED	36000E COLIFORMS TOTAL	36010E COLIFORMS FECAL	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	SUBM ID	PB MG/L	PB MG/L	MPN NO/ML	MF NO/ML	MG/L	MG/L	
SAMPLES(FLAGS)	0301	5(5)	2(2)	2(1)	2(1)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L2.	L2.	100.	96.	MINIMUM
HIGH		L.001	L.001	5.	2.	158.	152.	MAXIMUM
AVERAGE				3.*	2.*	128.	121.	MOYENNE
STD.DEV.				2.*	0.*	22.	24.	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH		L.001				118.	100.	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	3.*	2.*	122.	118.	50 <sup>e</sup> MEDIANE
75TH		L.001				142.	140.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE		04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0025** LAT. **55 D 17M 0 S** LONG. **121 D 23M 0 S**UTM **10 602600E 6127200 N**  
MAR 09, 1977 TO/À SEP 13, 1978MEIKLE CREEK AT 200 LINE ROAD CROSSING  
BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PTHALEIN	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>15(0)</b>	<b>9(0)</b>	<b>8(0)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>15(0)</b>	<b>10(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>123.</b>	<b>0.</b>	<b>65.6</b>	<b>10.</b>	<b>2.7</b>	<b>7.7</b>	<b>65.1</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>291.</b>	<b>.2</b>	<b>141.</b>	<b>50.</b>	<b>13.</b>	<b>8.3</b>	<b>153.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>160.</b>	<b>.0</b>	<b>86.6</b>	<b>39.</b>	<b>6.0</b>		<b>87.7</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>44.</b>	<b>.1</b>	<b>24.9</b>	<b>10.</b>	<b>2.6</b>		<b>25.9</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>123.</b>			<b>30.</b>	<b>3.8</b>	<b>7.7</b>	<b>67.0</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>129.</b>	<b>0.</b>	<b>71.5</b>	<b>40.</b>	<b>4.3</b>	<b>7.8</b>	<b>71.2</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>146.</b>	<b>0.</b>	<b>77.5</b>	<b>40.</b>	<b>5.0</b>	<b>8.1</b>	<b>80.7</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>178.</b>	<b>0.</b>	<b>93.9</b>	<b>40.</b>	<b>7.7</b>	<b>8.2</b>	<b>87.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>211.</b>			<b>50.</b>	<b>8.2</b>	<b>8.3</b>	<b>130.5</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>8(0)</b>	<b>9(0)</b>			<b>8(0)</b>		<b>2(1)</b>	<b>1(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.21</b>	<b>.0</b>			<b>5.4</b>		<b>L.002</b>	<b>L.1</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>39.8</b>	<b>10.</b>			<b>11.2</b>		<b>.002</b>	<b>L.1</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>21.40</b>	<b>5.7</b>			<b>7.4</b>		<b>.002*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>11.12</b>	<b>2.7</b>			<b>2.2</b>		<b>.000*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>18.70</b>	<b>5.</b>			<b>5.8</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>20.90</b>	<b>5.7</b>			<b>6.8</b>		<b>.002*</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>26.00</b>	<b>6.5</b>			<b>8.8</b>				<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
	SUBM ID	KJELDAHL MG/L	NO3 & NO2 MG/L	ORGANIC MG/L	AMMONIA MG/L	N MG/L	ORTHO PO4 MG/L	P MG/L	ORGANIC C MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>7(0)</b>	<b>14(10)</b>		<b>9(2)</b>	<b>6(0)</b>	<b>2(0)</b>	<b>7(0)</b>	<b>2(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.14</b>	<b>L.02</b>		<b>L.005</b>	<b>.17</b>	<b>.006</b>	<b>.013</b>	<b>9.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.86</b>	<b>.07</b>		<b>.026</b>	<b>.93</b>	<b>.006</b>	<b>.317</b>	<b>12.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.29</b>	<b>.024*</b>		<b>.013*</b>	<b>.32</b>	<b>.006</b>	<b>.063</b>	<b>10.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.25</b>	<b>.013*</b>		<b>.009*</b>	<b>.30</b>	<b>.000</b>	<b>.112</b>	<b>2.1</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			<b>L.02</b>							<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.17</b>	<b>L.02</b>		<b>.006</b>	<b>.17</b>		<b>.019</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.22</b>	<b>L.020</b>		<b>.008</b>	<b>.20</b>	<b>.006</b>	<b>.022</b>	<b>10.5</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.25</b>	<b>.02</b>		<b>.019</b>	<b>.24</b>		<b>.03</b>		<b>75<sup>e</sup></b>
<b>90TH</b>			<b>.03</b>							<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00CB07FB0025 LAT 55 D 17 M 0 S LONG 121 D 23 M 0 S

UTM 10 602600 6127200  
APR 21 1977 TO/A SEP 13 1978MEIKLE CREEK AT 200 LINE ROAD CROSSING  
BRITISH COLUMBIA

		08102F OXYGEN DISSOLVED	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
	SUBM ID	DO O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS)	0301	13(0)	2(0)		2(2)	8(5)	8(0)	6(0)	2(2)	ECHANTILLONS(IND.)
LOW		9.	.02		L.005	L.02	.5	.2	L.01	MINIMUM
HIGH		14.8	.24		L.005	.03	.9	.5	L.01	MAXIMUM
AVERAGE		11.9	.13			.02*	.71	.35		MOYENNE
STD.DEV.		1.6	.16			.00*	.16	.12		ECART-TYPE
PERCNT:10TH		10.3								10 <sup>e</sup> PERCNT
25TH		10.6				L.02	.60	.3		25 <sup>e</sup>
MEDIAN 50TH		12.2	.13		L.005	L.02	.65	.30	L.010	50 <sup>e</sup> MEDIANE
75TH		13.2				.03	.90	.5		75 <sup>e</sup>
90TH		13.5								90 <sup>e</sup>
SECONDARY CODE			02E			04E			02E	CODE DE SECOURS

		29005L COPPER TOTAL	29107L COPPER DISSOLVED	30005L ZINC TOTAL	30107L ZINC DISSOLVED	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	
	SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG UG/L	
SAMPLES(FLAGS)	0301	2(2)	2(2)	9(3)	2(2)	2(2)	2(2)	2(2)	2(2)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.005	L.005	L.005	L.0005	L.0005	L.05	MINIMUM
HIGH		L.001	L.001	.023	L.005	L.005	L.0005	L.0005	L.05	MAXIMUM
AVERAGE				.008*						MOYENNE
STD.DEV.				.006*						ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				L.005						25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	.006	L.005	L.005	L.0005	L.0005	L.05	50 <sup>e</sup> MEDIANE
75TH				.007						75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		04L		03L			01E	03L		CODE DE SECOURS

		82002L LEAD TOTAL	82104L LEAD DISSOLVED	36000E COLIFORMS TOTAL	36010E COLIFORMS FECAL	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	SUBM ID	PB MG/L	PB MG/L	MPN NO-ML	MF NO-ML	MG/L	MG/L	
SAMPLES(FLAGS)	0301	2(2)	2(2)			14(0)	15(0)	ECHANTILLONS(IND.)
LOW		L.001	L.001			94.	84.	MINIMUM
HIGH		L.001	L.001			192.	176.	MAXIMUM
AVERAGE						122.	109.	MOYENNE
STD.DEV.						24.	24.	ECART-TYPE
PERCNT:10TH						96.	86.	10 <sup>e</sup> PERCNT
25TH						110.	92.	25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001			118.	104.	50 <sup>e</sup> MEDIANE
75TH						130.	122.	75 <sup>e</sup>
90TH						140.	136.	90 <sup>e</sup>
SECONDARY CODE		04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0026** LAT. **54 D 46 M 0 S** LONG. **121 D 13 M 0 S**UTM **10 614800E 6070000 N**  
MAR 09, 1977 TO/A SEP 14, 1977MURRAY RIVER HEADWATERS BELOW IMPERIAL  
CREEK AT KINUSED FALLS ROAD BRIDGE

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS)</b> 0301	9(0)	6(0)	9(0)	8(6)	8(0)	9(0)	8(0)		<b>ECHANTILLONS(IND.)</b>
LOW	105.	0.	58.3	L5.	.4	8.2	60.6		MINIMUM
HIGH	248.	0.	129.	5.	2.3	8.3	126.		MAXIMUM
AVERAGE	174.	.0	91.3	5.*	1.4		87.9		MOYENNE
STD.DEV.	52.	.0	25.1	0.*	.7		22.0		ECART-TYPE
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	130.	0.	71.8	L5.	.9	8.2	70.1		25 <sup>e</sup>
MEDIAN 50TH	181.	.0	93.1	L5.	1.5	8.3	85.8		50 <sup>e</sup> MEDIANE
75TH	205.	0.	104.	5.*	2.0	8.3	102.1		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	
<b>SAMPLES(FLAGS)</b> 0301	8(0)	9(0)			1(0)	1(1)	1(0)	1(1)	<b>ECHANTILLONS(IND.)</b>
LOW	16.6	4.1			5.	L.1	.002	L.1	MINIMUM
HIGH	34.9	10.1			5.	L.1	.002	L.1	MAXIMUM
AVERAGE	24.46	7.0							MOYENNE
STD.DEV.	6.96	2.1							ECART-TYPE
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	18.75	5.8							25 <sup>e</sup>
MEDIAN 50TH	23.10	6.9							50 <sup>e</sup> MEDIANE
75TH	30.25	7.9							75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E							CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	C MG/L	
<b>SAMPLES(FLAGS)</b> 0301	7(1)	7(0)	1(0)	2(1)	7(0)	2(2)	7(0)	1(1)	<b>ECHANTILLONS(IND.)</b>
LOW	L.01	.03	.04	L.005	.08	L.003	.003	L.1	MINIMUM
HIGH	.08	.17	.04	.006	.23	L.003	.011	L.1	MAXIMUM
AVERAGE	.05*	.099		.005*	.15		.006		MOYENNE
STD.DEV.	.02*	.053		.001*	.06		.003		ECART-TYPE
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	.04	.03			.09		.004		25 <sup>e</sup>
MEDIAN 50TH	.06	.1		.005*	.16	L.003	.005		50 <sup>e</sup> MEDIANE
75TH	.06	.14			.2		.01		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0026 LAT. 54 D 46M 0 S LONG. 121 D 13M 0 S

UTM 10 614800E 6070000N  
APR 20 1977 TO: A SEP 14 1977MURRAY RIVER HEADWATERS BELOW IMPERIAL  
CREEK AT KINUSED FALLS ROAD BRIDGE

	08102F OXYGEN DISSOLVED	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28004L NICKEL TOTAL	
SUBM ID	DO O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS) 0301	7(0)	3(0)	2(1)	2(2)	5(5)	7(0)	1(1)	4(3)	ECHANTILLONS(IND.)
LOW	9.8	.02	L.001	L.005	L.02	.1	L.01	L.01	MINIMUM
HIGH	14.2	.05	.001	L.005	L.02	.4	L.01	.01	MAXIMUM
AVERAGE	11.1	.03	.001*			.17		.010*	MOYENNE
STD.DEV.	1.5	.02	.000*			.11		.000*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	9.9				L.02	.1		L.010	25 <sup>e</sup>
MEDIAN 50TH	10.4	.02	.001*	L.005	L.02	.1		L.010	50 <sup>e</sup> MEDIANE
75TH	11.9				L.02	.2		.010*	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E	02E		04E			02E	CODE DE SECOURS

	29005L COPPER TOTAL	29107L COPPER DISSOLVED	30005L ZINC TOTAL	30107L ZINC DISSOLVED	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	
SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG UG/L	
SAMPLES(FLAGS) 0301	6(6)	1(1)	7(6)		2(2)	2(2)	2(2)	1(1)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.005		L.005	L.0005	L.0005	L.05	MINIMUM
HIGH	L.001	L.001	.007		L.005	L.0005	L.0005	L.05	MAXIMUM
AVERAGE			.005*						MOYENNE
STD.DEV.			.001*						ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.001		L.005						25 <sup>e</sup>
MEDIAN 50TH	L.001		L.005		L.005	L.0005	L.0005		50 <sup>e</sup> MEDIANE
75TH	L.001		L.005						75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L		03L			01E	03L		CODE DE SECOURS

	82002L LEAD TOTAL	82104L LEAD DISSOLVED	36000E COLIFORMS TOTAL	36010E COLIFORMS FECAL	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	PB MG/L	PB MG/L	MPN NO./ML	MF NO./ML	MG/L	MG/L	
SAMPLES(FLAGS) 0301	7(6)	1(1)	2(0)	2(0)	8(0)	9(0)	ECHANTILLONS(IND.)
LOW	L.001	L.001	2.	2.	60.	58.	MINIMUM
HIGH	.002	L.001	2.	2.	144.	142.	MAXIMUM
AVERAGE	.001*		2.	2.	101.	99.	MOYENNE
STD.DEV.	.000*		0.	0.	31.	30.	ECART-TYPE
PERCNT:10TH							10 <sup>e</sup> PERCNT
25TH	L.001				77.	78.	25 <sup>e</sup>
MEDIAN 50TH	L.001		2.	2.	98.	102.	50 <sup>e</sup> MEDIANE
75TH	L.001				128.	108.	75 <sup>e</sup>
90TH							90 <sup>e</sup>
SECONDARY CODE	04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0027** LAT. **54 D 48 M 0 S** LONG. **121 D 4 M 0 S**UTM **10 624200E 6074000 N**  
MAR 09, 1977 TO/À SEP 14, 1977KINUSED CREEK BELOW FIVE CABIN CREEK  
AT KINUSED FALLS ROAD CROSSING.

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PTHALEIN	
	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
SAMPLES(FLAGS) 0301	9(0)	6(0)	9(0)	8(0)	8(0)	9(0)	8(0)		ECHANTILLONS(IND.)
LOW	190.	0.	139.	5.	1.7	8.2	144.		MINIMUM
HIGH	373.	.5	201.	10.	12.	8.3	181.		MAXIMUM
AVERAGE	301.	.1	163.1	8.	5.0		160.0		MOYENNE
STD.DEV.	54.	.2	21.1	3.	3.4		15.4		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	278.	0.	147.	5.	2.2	8.3	146.5		25 <sup>e</sup>
MEDIAN 50TH	302.	.0	157.	8.	4.4	8.3	155.0		50 <sup>e</sup> MEDIANE
75TH	335.	0.	176.	10.	6.6	8.3	176.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	CA MG/L	MG	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG. SULPH. MG/L	
SAMPLES(FLAGS) 0301	9(0)	9(0)			1(1)		3(3)	1(1)	ECHANTILLONS(IND.)
LOW	39.5	9.5			L5.		L.002	L.1	MINIMUM
HIGH	59.	13.			L5.		L.002	L.1	MAXIMUM
AVERAGE	47.01	11.1							MOYENNE
STD.DEV.	6.60	1.3							ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	41.9	10.2							25 <sup>e</sup>
MEDIAN 50TH	45.1	10.9					L.002		50 <sup>e</sup> MEDIANE
75TH	52.6	12.3							75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E							CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
	KJELDAHL N	NO3 & NO2 N	ORGANIC N	AMMONIA N	N	ORTHO PO4	P	ORGANIC C	
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	7(0)	7(5)		2(0)	7(0)	5(3)	5(0)	2(0)	ECHANTILLONS(IND.)
LOW	.09	L.02		.007	.09	L.003	.004	3.	MINIMUM
HIGH	.21	.02		.008	.21	.027	.024	4.	MAXIMUM
AVERAGE	.13	.020*		.008	.13	.010*	.015	3.5	MOYENNE
STD.DEV.	.04	.000*		.001	.04	.010*	.010	.7	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.1	L.02			.1	L.003	.005		25 <sup>e</sup>
MEDIAN 50TH	.12	L.02		.008	.13	L.003	.021	3.5	50 <sup>e</sup> MEDIANE
75TH	.13	.02			.14	.012	.021		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
PEACE RIVER SUB-BASIN

STATION **00CB07FB0027** LAT. **54 D 48 M 0 S** LONG. **121 D 4 M 0 S**

UTM **10 624200E 6074000 N**  
APR 20 1977 TO/A SEP 14 1977

KINUSED CREEK BELOW FIVE CABIN CREEK  
AT KINUSED FALLS ROAD CROSSING

		08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	26007L NICKEL TOTAL	
	SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS)	0301	7(0)	2(1)	1(1)	2(2)	2(1)	2(0)	2(1)	2(2)	ECHANTILLONS(IND.)
LOW		9.8	L.01	L.001	L.005	L.02	.2	L.1	L.01	MINIMUM
HIGH		13.4	.24	L.001	L.005	.02	.4	.1	L.01	MAXIMUM
AVERAGE		10.8	.12*			.02*	.30	.10*		MOYENNE
STD.DEV.		1.2	.16*			.00*	.14	.00*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		10.								25 <sup>e</sup>
MEDIAN 50TH		10.4	.12*		L.005	.02*	.30	.10*	L.010	50 <sup>e</sup> MEDIANE
75TH		11.								75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			02E			04E			02E	CODE DE SECOURS

		29005L COPPER TOTAL	29107L COPPER DISSOLVED	30005L ZINC TOTAL	30107L ZINC DISSOLVED	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	
	SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG UG/L	
SAMPLES(FLAGS)	0301	2(2)	2(2)	2(2)	2(2)	3(3)	2(0)	3(3)	2(2)	ECHANTILLONS(IND.)
LOW		L.001	L.001	L.005	L.005	L.005	.0009	L.0005	L.05	MINIMUM
HIGH		L.001	L.001	L.005	L.005	L.005	.0017	L.0005	L.05	MAXIMUM
AVERAGE							.0013			MOYENNE
STD.DEV.							.0006			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		L.001	L.001	L.005	L.005	L.005	.0013	L.0005	L.05	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		04L		03L			01E	03L		CODE DE SECOURS

		82002L LEAD TOTAL	82104L LEAD DISSOLVED	36000E COLIFORMS TOTAL	36010E COLIFORMS FECAL	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	SUBM ID	PB MG/L	PB MG/L	MPN NO./ML	MF NO./ML	MG/L	MG/L	
SAMPLES(FLAGS)	0301	2(1)	2(2)	1(0)	1(0)	8(0)	9(0)	ECHANTILLONS(IND.)
LOW		L.001	L.001	220.	13.	172.	160.	MINIMUM
HIGH		.007	L.001	220.	13.	222.	212.	MAXIMUM
AVERAGE		.004*				197.	184.	MOYENNE
STD.DEV.		.004*				17.	20.	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH						183.	166.	25 <sup>e</sup>
MEDIAN 50TH		.004*	L.001			198.	176.	50 <sup>e</sup> MEDIANE
75TH						211.	202.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE		04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00CB07FB0028** LAT. **54 D 47M 0 S** LONG. **120 D 58M 0 S**

UTM **10 630800E 6072400N**  
MAR 09, 1977 TO/À SEP 14, 1977

FIVE CABIN CREEK NEAR CONFLUENCE WITH  
KINUSED CREEK AND FALLS ROAD CROSSING

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PTHALEIN CACO3 MG/L	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L		
<b>SAMPLES(FLAGS)</b> 0301	9(0)	6(0)	9(0)	8(0)	8(0)	9(0)	8(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>76.</b>	<b>0.</b>	<b>37.1</b>	<b>5.</b>	<b>.4</b>	<b>8.</b>	<b>38.6</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>260.</b>	<b>0.</b>	<b>130.</b>	<b>40.</b>	<b>26.</b>	<b>8.3</b>	<b>108.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>147.</b>	<b>.0</b>	<b>74.3</b>	<b>19.</b>	<b>10.5</b>		<b>68.6</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>65.</b>	<b>.0</b>	<b>32.9</b>	<b>13.</b>	<b>10.0</b>		<b>27.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>101.</b>	<b>0.</b>	<b>50.5</b>	<b>8.</b>	<b>1.9</b>	<b>8.1</b>	<b>47.0</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>118.</b>	<b>.0</b>	<b>60.8</b>	<b>18.</b>	<b>7.9</b>	<b>8.1</b>	<b>58.6</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>196.</b>	<b>0.</b>	<b>98.6</b>	<b>30.</b>	<b>19.0</b>	<b>8.3</b>	<b>95.4</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL PHENOL	06551L TANNIN AND LIGNIN LIG.SULPH.	
SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0301	9(0)	9(0)					1(1)	1(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>9.9</b>	<b>3.</b>					<b>L.002</b>	<b>L.1</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>34.8</b>	<b>10.5</b>					<b>L.002</b>	<b>L.1</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>19.86</b>	<b>6.0</b>							<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>8.79</b>	<b>2.7</b>							<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>13.3</b>	<b>4.2</b>							<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>16.1</b>	<b>5.</b>							<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>26.8</b>	<b>7.7</b>							<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		02E							CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	C MG/L	
<b>SAMPLES(FLAGS)</b> 0301	7(0)	7(5)		2(0)	7(0)	2(1)	7(0)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.11</b>	<b>L.02</b>		<b>.008</b>	<b>.11</b>	<b>L.003</b>	<b>.007</b>	<b>5.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.36</b>	<b>.08</b>		<b>.01</b>	<b>.44</b>	<b>.003</b>	<b>.15</b>	<b>5.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.17</b>	<b>.029*</b>		<b>.009</b>	<b>.18</b>	<b>.003*</b>	<b>.056</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.09</b>	<b>.023*</b>		<b>.001</b>	<b>.12</b>	<b>.000*</b>	<b>.062</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.12</b>	<b>L.02</b>			<b>.12</b>		<b>.007</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.14</b>	<b>L.02</b>		<b>.009</b>	<b>.14</b>	<b>.003*</b>	<b>.027</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.16</b>	<b>.02</b>			<b>.17</b>		<b>.14</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 00CB07FB0028 LAT. 54 D 47 M 0 S LONG. 120 D 58 M 0 S

UTM 10 630800E 6072400N

APR 20 1977 TO/A SEP 14 1977

FIVE CABIN CREEK NEAR CONFLUENCE WITH  
KINUSED CREEK AND FALLS ROAD CROSSING

	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	26007L NICKEL TOTAL	
SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS) 0301	7(0)	2(0)		2(2)	2(2)	2(0)	1(1)	2(2)	ECHANTILLONS(IND.)
LOW	9.2	.02		L.005	L.02	.1	L.1	L.01	MINIMUM
HIGH	12.5	1.4		L.005	L.02	1.	L.1	L.01	MAXIMUM
AVERAGE	10.8	.71				.55			MOYENNE
STD.DEV.	1.3	.98				.64			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	9.2								25 <sup>e</sup>
MEDIAN 50TH	11.	.71		L.005	L.02	.55		L.010	50 <sup>e</sup> MEDIANE
75TH	11.8								75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E			04E			02E	CODE DE SECOURS

	29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301	2(1)	1(1)	2(1)	1(1)	2(2)	2(1)	2(2)	1(1)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.005	L.005	L.005	L.0005	L.0005	L.05	MINIMUM
HIGH	.002	L.001	.006	L.005	L.005	.0008	L.0005	L.05	MAXIMUM
AVERAGE	.001*		.005*			.0006*			MOYENNE
STD.DEV.	.001*		.001*			.0002*			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	.001*		.005*		L.005	.0006*	L.0005		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L		03L			01E	03L		CODE DE SECOURS

	82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MF	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	MG/L	MG/L	NO. ML	NO. ML	MG/L	MG/L	
SAMPLES(FLAGS) 0301	2(2)	1(1)	1(1)	1(1)	8(0)	9(0)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L2.	L2.	70.	46.	MINIMUM
HIGH	L.001	L.001	L2.	L2.	156.	154.	MAXIMUM
AVERAGE					110.	92.	MOYENNE
STD.DEV.					28.	36.	ECART-TYPE
PERCNT:10TH							10 <sup>e</sup> PERCNT
25TH					92.	72.	25 <sup>e</sup>
MEDIAN 50TH	L.001				108.	76.	50 <sup>e</sup> MEDIANE
75TH					128.	120.	75 <sup>e</sup>
90TH							90 <sup>e</sup>
SECONDARY CODE	04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00CB07FB0029** LAT. **54 D 48 M 0 S** LONG. **120 D 44 M 0 S**

UTM **10 645800E 6074600 N**  
MAR 09, 1977 TO/À SEP 14, 1977

KINUSED CREEK UPSTREAM FROM FIVE  
CABIN CREEK, BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
<b>SAMPLES(FLAGS) 0301</b>	<b>8(0)</b>	<b>6(0)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>7(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>204.</b>	<b>0.</b>	<b>127.</b>	<b>10.</b>	<b>1.7</b>	<b>8.</b>	<b>128.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>450.</b>	<b>.0</b>	<b>233.</b>	<b>40.</b>	<b>5.2</b>	<b>8.3</b>	<b>195.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>304.</b>	<b>.0</b>	<b>164.9</b>	<b>31.</b>	<b>2.9</b>		<b>158.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>76.</b>	<b>.0</b>	<b>35.4</b>	<b>11.</b>	<b>1.1</b>		<b>23.4</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>248.</b>	<b>0.</b>	<b>136.0</b>	<b>25.</b>	<b>2.3</b>	<b>8.2</b>	<b>136.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>303.</b>	<b>.0</b>	<b>160.0</b>	<b>35.</b>	<b>2.7</b>	<b>8.2</b>	<b>160.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>338.</b>	<b>0.</b>	<b>183.5</b>	<b>40.</b>	<b>3.2</b>	<b>8.3</b>	<b>176.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH. MG/L	
<b>SAMPLES(FLAGS) 0301</b>	<b>8(0)</b>	<b>8(0)</b>			<b>1(1)</b>		<b>1(1)</b>	<b>1(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>37.4</b>	<b>8.2</b>			<b>L5.</b>		<b>L.002</b>	<b>.8</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>66.</b>	<b>16.6</b>			<b>L5.</b>		<b>L.002</b>	<b>.8</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>47.74</b>	<b>11.1</b>							<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>10.10</b>	<b>2.6</b>							<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>39.00</b>	<b>9.3</b>							<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>46.15</b>	<b>10.9</b>							<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>54.10</b>	<b>11.7</b>							<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		02E							CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
SUBM ID	KJELDAHL MG/L	NO3 & NO2 MG/L	ORGANIC MG/L	AMMONIA MG/L	N MG/L	ORTHO MG/L	P MG/L	ORGANIC MG/L	
<b>SAMPLES(FLAGS) 0301</b>	<b>7(0)</b>	<b>7(6)</b>		<b>2(0)</b>	<b>7(0)</b>	<b>2(0)</b>	<b>7(0)</b>	<b>1(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.2</b>	<b>L.02</b>		<b>.012</b>	<b>.2</b>	<b>.003</b>	<b>.011</b>	<b>8.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.32</b>	<b>.02</b>		<b>.019</b>	<b>.32</b>	<b>.003</b>	<b>.019</b>	<b>8.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.26</b>	<b>.020*</b>		<b>.016</b>	<b>.26</b>	<b>.003</b>	<b>.015</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.05</b>	<b>.000*</b>		<b>.005</b>	<b>.05</b>	<b>.000</b>	<b>.003</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.21</b>	<b>L.02</b>			<b>.21</b>		<b>.014</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.26</b>	<b>L.02</b>		<b>.016</b>	<b>.26</b>	<b>.003</b>	<b>.014</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.32</b>	<b>L.02</b>			<b>.32</b>		<b>.019</b>		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00CB07FB0029 LAT 54 D 48 M 0 S LONG 120 D 44 M 0 S

ITEM 10 645800 6074600 \*

APR 20 1977 TO/A SEP 14 1977

KINUSED CREEK UPSTREAM FROM FIVE  
CABIN CREEK BRITISH COLUMBIA

	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS) 0301	7(0)	2(1)		2(2)	2(2)	2(0)		2(2)	ECHANTILLONS(IND.)
LOW	8.2	L.01		L.005	L.02	.3		L.01	MINIMUM
HIGH	12.8	.02		L.005	L.02	.8		L.01	MAXIMUM
AVERAGE	10.0	.01*				.55			MOYENNE
STD.DEV.	1.4	.01*				.35			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	8.9								25 <sup>e</sup>
MEDIAN 50TH	9.8	.01*		L.005	L.02	.55		L.010	50 <sup>e</sup> MEDIANE
75TH	10.2								75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E			04E				CODE DE SECOURS

	29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301	2(2)	1(1)	2(2)	1(1)	2(1)	2(1)	2(2)	1(1)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.005	L.005	.005	L.0005	L.0005	L.05	MINIMUM
HIGH	L.001	L.001	L.005	L.005	L5.	.001	L.0005	L.05	MAXIMUM
AVERAGE					2.502*	.0007*			MOYENNE
STD.DEV.					3.532*	.0004*			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	L.001		L.005		2.502*	.0007*	L.0005		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L		03L			01E	03L		CODE DE SECOURS

	82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MF	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	MG/L	MG/L	NO./ML	NO./ML	MG/L	MG/L	
SAMPLES(FLAGS) 0301	2(2)	1(1)			8(0)	8(0)	ECHANTILLONS(IND.)
LOW	L.001	L.001			156.	148.	MINIMUM
HIGH	L.001	L.001			276.	268.	MAXIMUM
AVERAGE					199.	194.	MOYENNE
STD.DEV.					40.	40.	ECART-TYPE
PERCNT:10TH							10 <sup>e</sup> PERCNT
25TH					168.	163.	25 <sup>e</sup>
MEDIAN 50TH	L.001				189.	185.	50 <sup>e</sup> MEDIANE
75TH					222.	218.	75 <sup>e</sup>
90TH							90 <sup>e</sup>
SECONDARY CODE	04L						CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FB0030 LAT. 55 D 40 M 0 S LONG. 121 D 38 M 0 S

UTM 10 586000E 6169600 N  
MAY 17, 1977 TO/À SEP 13, 1978CENTURION CREEK ABOVE CONFLUENCE WITH  
PINE RIVER, BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	14(0)		14(0)	15(0)	13(0)	15(0)	7(0)		ECHANTILLONS(IND.)
LOW		371.		199.	9.	39.	8.1	190.		MINIMUM
HIGH		474.		264.	40.	120.	8.7	270.		MAXIMUM
AVERAGE		417.		221.1	33.	75.6		241.9		MOYENNE
STD.DEV.		34.		21.1	9.	24.4		30.4		ECART-TYPE
PERCNT:10TH		372.		202.	20.	48.	8.2			10 <sup>e</sup> PERCNT
25TH		383.		205.	30.	64.	8.2	210.		25 <sup>e</sup>
MEDIAN 50TH		412.		217.0	40.	70.	8.3	253.		50 <sup>e</sup> MEDIANE
75TH		430.		220.	40.	90.	8.5	268.		75 <sup>e</sup>
90TH		472.		256.	40.	120.	8.6			90 <sup>e</sup>
SECONDARY CODE				03E				01E		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301			14(0)	13(0)	3(0)	3(0)		14(0)	ECHANTILLONS(IND.)
LOW				52.	14.3	5.	227.		5.6	MINIMUM
HIGH				74.	20.3	49.	320.		12.9	MAXIMUM
AVERAGE				60.57	17.0	20.	282.		8.1	MOYENNE
STD.DEV.				6.01	2.0	25.	49.		2.0	ECART-TYPE
PERCNT:10TH				54.5	14.3				5.6	10 <sup>e</sup> PERCNT
25TH				57.5	15.4				7.2	25 <sup>e</sup>
MEDIAN 50TH				59.50	16.7	7.	299.		7.7	50 <sup>e</sup> MEDIANE
75TH				60.5	17.9				9.6	75 <sup>e</sup>
90TH				69.	20.				9.6	90 <sup>e</sup>
SECONDARY CODE					02E					CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301		14(3)							ECHANTILLONS(IND.)
LOW			L.02							MINIMUM
HIGH			.07							MAXIMUM
AVERAGE			.033*							MOYENNE
STD.DEV.			.015*							ECART-TYPE
PERCNT:10TH			L.02							10 <sup>e</sup> PERCNT
25TH			.02							25 <sup>e</sup>
MEDIAN 50TH			.030							50 <sup>e</sup> MEDIANE
75TH			.04							75 <sup>e</sup>
90TH			.06							90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

STATION 00CB07FB0030 DATE 55 D 40 M 0 S LONG 121 D 38 M 0 S

TIME 10 586000 6169600  
MAY 17 1977 TO/A SEP 13 1978CENTURION CREEK ABOVE CONFLUENCE WITH  
PINE RIVER BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25074L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301					7(0)		3(0)	10(0)	ECHANTILLONS(IND.)
LOW					8.1		.09	.02	MINIMUM
HIGH					13.5		.16	.18	MAXIMUM
AVERAGE					10.7		.13	.13	MOYENNE
STD.DEV.					1.7		.04	.04	ECART-TYPE
PERCNT:10TH								.07	10 <sup>e</sup> PERCNT
25TH					9.2			.12	25 <sup>e</sup>
MEDIAN 50TH					10.8		.15	.14	50 <sup>e</sup> MEDIANE
75TH					11.2			.16	75 <sup>e</sup>
90TH								.17	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
SAMPLES(FLAGS) 0301	10(7)	13(0)				13(0)			ECHANTILLONS(IND.)
LOW	L.1	.4				.006			MINIMUM
HIGH	.3	11.6				.03			MAXIMUM
AVERAGE	.120*	5.623				.015			MOYENNE
STD.DEV.	.063*	3.080				.007			ECART-TYPE
PERCNT:10TH	L.100	2.1				.009			10 <sup>e</sup> PERCNT
25TH	L.1	4.2				.011			25 <sup>e</sup>
MEDIAN 50TH	L.100	5.5				.012			50 <sup>e</sup> MEDIANE
75TH	.1	7.9				.017			75 <sup>e</sup>
90TH	.200	9.				.029			90 <sup>e</sup>
SECONDARY CODE	04L	04L				05L			CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG SULPH MG/L	MG/L	LAS MG/L	MG/L	MG/L	MPN NO./ML	MPN NO./ML	
SAMPLES(FLAGS) 0301		14(0)				14(0)	3(0)	3(1)	ECHANTILLONS(IND.)
LOW		.6				354.	17.	79.	MINIMUM
HIGH		1.0				440.	79.	G2400.	MAXIMUM
AVERAGE		.82				389.	38.	853.*	MOYENNE
STD.DEV.		.12				26.	36.	1340.*	ECART-TYPE
PERCNT:10TH		.6				356.			10 <sup>e</sup> PERCNT
25TH		.8				366.			25 <sup>e</sup>
MEDIAN 50TH		.80				385.	17.	79.	50 <sup>e</sup> MEDIANE
75TH		.9				400.			75 <sup>e</sup>
90TH		1.				440.			90 <sup>e</sup>
SECONDARY CODE						71E			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FB0031** LAT. **55 D 43 M 0 S** LONG. **121 D 35 M 0 S**UTM **10 589000E 6175200 N**

JUL 12, 1978 TO/À SEP 13, 1978

CENTURION CREEK UPSTREAM FROM CHETWYND  
VILLAGE, BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b> 0301	4(0)		4(0)	4(0)	4(0)	4(0)	4(0)		<b>ECHANTILLONS(IND.)</b>
LOW	497.		265.	20.	7.	8.2	287.		<b>MINIMUM</b>
HIGH	520.		293.	30.	25.	8.4	297.		<b>MAXIMUM</b>
AVERAGE	514.		277.0	28.	14.8		292.0		<b>MOYENNE</b>
STD.DEV.	11.		12.6	5.	7.5		4.8		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	508.		267.0	25.	10.0	8.2	288.0		<b>25<sup>e</sup></b>
MEDIAN 50TH	520.		275.0	30.	13.5	8.2	292.0		<b>50<sup>e</sup> MEDIANE</b>
75TH	520.		287.0	30.	19.5	8.3	296.0		<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE			03E				01E		CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b> 0301			4(0)	4(0)	1(0)	1(0)		4(4)	<b>ECHANTILLONS(IND.)</b>
LOW			68.	22.3	4.	343.		L5.	<b>MINIMUM</b>
HIGH			80.5	25.1	4.	343.		L5.	<b>MAXIMUM</b>
AVERAGE			71.88	23.6					<b>MOYENNE</b>
STD.DEV.			5.92	1.2					<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH			68.00	22.7				L5.0	<b>25<sup>e</sup></b>
MEDIAN 50TH			69.50	23.5				L5.0	<b>50<sup>e</sup> MEDIANE</b>
75TH			75.75	24.4				L5.0	<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE			01L	02E					CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07554L NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	
<b>SAMPLES(FLAGS)</b> 0301		4(4)							<b>ECHANTILLONS(IND.)</b>
LOW		L.02							<b>MINIMUM</b>
HIGH		L.02							<b>MAXIMUM</b>
AVERAGE									<b>MOYENNE</b>
STD.DEV.									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH		L.020							<b>25<sup>e</sup></b>
MEDIAN 50TH		L.020							<b>50<sup>e</sup> MEDIANE</b>
75TH		L.020							<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FB0031 LAT. 55 D 43M 0 S LONG. 121 D 35M 0 S

UTM 10 589000E 6175200 N  
JUL 12 1978 TO/A SEP 13 1978CENTURION CREEK UPSTREAM FROM CHETWYND  
VILLAGE, BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED CR	25104L MANGANESE DISSOLVED MN	25004L MANGANESE TOTAL MN	
SUBM ID	P MG/L	SIO2 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301					1(0)			4(0)	ECHANTILLONS(IND.)
LOW					7.4			.08	MINIMUM
HIGH					7.4			.11	MAXIMUM
AVERAGE								.10	MOYENNE
STD.DEV.								.02	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH								.08	25 <sup>e</sup>
MEDIAN 50TH								.10	50 <sup>e</sup> MEDIANE
75TH								.11	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE								04E	CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301						4(1)			ECHANTILLONS(IND.)
LOW	L.1	.6				L.005			MINIMUM
HIGH	.2	1.6				.009			MAXIMUM
AVERAGE	.125*	1.000				.007*			MOYENNE
STD.DEV.	.050*	.424				.002*			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.100	.750				.005*			25 <sup>e</sup>
MEDIAN 50TH	L.100	.900				.007			50 <sup>e</sup> MEDIANE
75TH	.150*	1.250				.009			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L	04L				05L 03L			CODE DE SECOURS

	80011L MERCURY TOTAL HG	06551L TANNIN AND LIGNIN LIG.SULPH. MG/L	06716L CHLORO- PHYLL A MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	10402L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	36010E COLIFORMS FECAL MF NO/ML	36000E COLIFORMS TOTAL MPN NO/ML	
SUBM ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L			
SAMPLES(FLAGS) 0301		4(0)				4(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW		.6				300.	11.	21.	MINIMUM
HIGH		.8				358.	11.	21.	MAXIMUM
AVERAGE		.68				334.			MOYENNE
STD.DEV.		.10				24.			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.60				318.			25 <sup>e</sup>
MEDIAN 50TH		.65				338.			50 <sup>e</sup> MEDIANE
75TH		.75				349.			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FC0001** LAT. **55 D 6 M 30 S** LONG. **120 D 22 M 30 S**UTM **10 667400 E 6109800 N**  
NOV 19, 1971 TO/À OCT 23, 1974BEATTON RIVER ONE HALF MILE ABOVE  
CONFLUENCE WITH PEACE RIVER

SUBM ID	USIE/CM	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>5(0)</b>	<b>2(0)</b>	<b>8(0)</b>	<b>9(0)</b>	<b>8(0)</b>	<b>6(0)</b>	<b>8(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>112.</b>	<b>104.</b>	<b>49.7</b>	<b>120.</b>	<b>13.</b>	<b>7.6</b>	<b>29.5</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>385.</b>	<b>128.</b>	<b>155.</b>	<b>350.</b>	<b>680.</b>	<b>8.</b>	<b>129.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>209.</b>	<b>116.</b>	<b>83.4</b>	<b>223.</b>	<b>175.4</b>		<b>69.4</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>107.</b>	<b>17.</b>	<b>34.3</b>	<b>82.</b>	<b>216.7</b>		<b>30.9</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>139.</b>		<b>56.3</b>	<b>160.</b>	<b>44.5</b>	<b>7.7</b>	<b>48.8</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>187.</b>	<b>116.</b>	<b>79.0</b>	<b>200.</b>	<b>121.0</b>	<b>7.8</b>	<b>67.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>220.</b>		<b>96.0</b>	<b>300.</b>	<b>189.5</b>	<b>7.9</b>	<b>82.6</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE				03E						CODE DE SECOURS

SUBM ID	K MG/L	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>6(0)</b>	<b>6(0)</b>	<b>8(0)</b>	<b>5(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>7(0)</b>	<b>7(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.9</b>	<b>4.</b>	<b>13.8</b>	<b>3.7</b>	<b>0.</b>	<b>69.</b>	<b>1.4</b>	<b>27.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>5.5</b>	<b>16.</b>	<b>28.4</b>	<b>8.</b>	<b>0.</b>	<b>157.</b>	<b>2.5</b>	<b>75.5</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>2.0</b>	<b>10.6</b>	<b>20.94</b>	<b>5.4</b>	<b>0.</b>	<b>99.</b>	<b>1.9</b>	<b>43.9</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>1.8</b>	<b>4.0</b>	<b>5.65</b>	<b>1.8</b>	<b>0.</b>	<b>32.</b>	<b>.4</b>	<b>17.5</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>1.</b>	<b>9.5</b>	<b>15.95</b>	<b>3.7</b>	<b>0.</b>	<b>75.</b>	<b>1.6</b>	<b>29.2</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>1.2</b>	<b>10.9</b>	<b>20.35</b>	<b>5.6</b>	<b>0.</b>	<b>90.</b>	<b>1.9</b>	<b>37.2</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>2.3</b>	<b>12.3</b>	<b>26.35</b>	<b>6.</b>	<b>0.</b>	<b>110.</b>	<b>2.2</b>	<b>57.1</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE		01L	01L	01L	02E			01L		CODE DE SECOURS

SUBM ID	N MG/L	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 + NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>7(0)</b>	<b>5(3)</b>	<b>7(3)</b>	<b>9(5)</b>	<b>3(0)</b>		<b>4(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.5</b>	<b>L.02</b>	<b>L.005</b>	<b>L.02</b>	<b>.7</b>		<b>.68</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>3.5</b>	<b>.04</b>	<b>.013</b>	<b>.18</b>	<b>1.</b>		<b>1.03</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>1.2</b>	<b>.024*</b>	<b>.007*</b>	<b>.047*</b>	<b>.9</b>		<b>.90</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>1.0</b>	<b>.009*</b>	<b>.003*</b>	<b>.053*</b>	<b>.2</b>		<b>.16</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.7</b>	<b>L.02</b>	<b>L.005</b>	<b>L.02</b>			<b>.78</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.8</b>	<b>L.02</b>	<b>.006</b>	<b>L.02</b>	<b>1.0</b>		<b>.94</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>1.0</b>	<b>.02</b>	<b>.007</b>	<b>.04</b>			<b>1.01</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE					01L	01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FC0001 LAT. 55 D 6 M 30 S LONG. 120 D 22 M 30 S

UTM 10 667400E 6109800N  
NOV 19 1971 TO/A OCT 23 1974BEATTON RIVER ONE HALF MILE ABOVE  
CONFLUENCE WITH PEACE RIVER

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	9(1)	5(0)	8(0)		6(0)	7(7)	7(2)	1(0)	ECHANTILLONS(IND.)
LOW	L.003	4.1	25.		8.2	L.005	.01	.09	MINIMUM
HIGH	1.64	7.2	51.		13.4	L.005	.08	.09	MAXIMUM
AVERAGE	.339*	5.5	35.9		10.9		.03*		MOYENNE
STD.DEV.	.518*	1.4	9.3		2.1		.02*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.079	4.5	28.5		9.2	L.005	L.02		25 <sup>e</sup>
MEDIAN 50TH	.111	5.1	33.5		10.9	L.005	.02		50 <sup>e</sup> MEDIANE
75TH	.323	6.7	43.5		13.	L.005	.04		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	06L	06L			52E 53E 53L		04E	CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	N MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
SAMPLES(FLAGS) 0301	7(0)	1(0)	1(0)	6(0)	7(3)		4(3)	7(2)	ECHANTILLONS(IND.)
LOW	.46	1.65	.01	.002	L.005		L.001	L.05	MINIMUM
HIGH	2.64	1.65	.01	.05	.033		.004	.83	MAXIMUM
AVERAGE	1.191			.011	.016*		.002*	.22*	MOYENNE
STD.DEV.	.696			.019	.012*		.002*	.30*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.8			.003	L.005		L.001	L.05	25 <sup>e</sup>
MEDIAN 50TH	1.04			.004	.012		L.001	.07	50 <sup>e</sup> MEDIANE
75TH	1.3			.005	.03		.002*	.43	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L 03L	06L	02E	06L 07L	04E 07L 05L		04L	11E	CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG SULPH MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO./ML	MPN NO./ML	
SAMPLES(FLAGS) 0301		6(0)		6(4)	8(0)	1(0)	6(0)	8(0)	ECHANTILLONS(IND.)
LOW		1.		.01	6.4	1234.	20.	11.	MINIMUM
HIGH		3.7		.03	2229.	1234.	170.	5400.	MAXIMUM
AVERAGE		2.37		.03*	491.3		76.	879.	MOYENNE
STD.DEV.		.96		.01*	749.6		63.	1851.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		2.		L.03	46.0		24.	42.	25 <sup>e</sup>
MEDIAN 50TH		2.15		L.03	217.5		55.	135.	50 <sup>e</sup> MEDIANE
75TH		3.2		L.03	584.0		130.	635.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FC0002** LAT. **56 D 25M 20 S** LONG. **121 D 3M 45 S**UTM **10 619600 E 6254600 N**  
OCT 24, 1974 TO/A MAR 23, 1976CHARLIE LAKE OUTLET AT SOUTH END OF  
CHARLIE LAKE NEAR FORT ST. JOHN

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0301	6(0)		6(0)	3(0)	6(0)	6(0)	6(0)		MINIMUM
HIGH		148.		60.9	20.	1.1	7.3	60.7		MAXIMUM
AVERAGE		228.		102.	150.	20.	8.2	94.8		MOYENNE
STD.DEV.		169.		71.2	73.	6.0		71.3		ECART-TYPE
		31.		15.6	68.	7.0		12.6		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		148.		61.9		1.8	7.4	61.9		25 <sup>e</sup>
MEDIAN 50TH		157.		66.1	50.	3.9	7.6	68.6		50 <sup>e</sup> MEDIANE
75TH		177.		70.1		5.4	7.8	73.5		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301			6(0)	6(0)	5(4)	5(4)			MINIMUM
HIGH				15.8	5.2	0.	Q73.			MAXIMUM
AVERAGE				26.	9.	Q1.	116.			MOYENNE
STD.DEV.				18.55	6.0	0.*	86.*			ECART-TYPE
				3.83	1.5	0.*	18.*			
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				16.2	5.2	Q1.	Q74.			25 <sup>e</sup>
MEDIAN 50TH				17.40	5.5	Q1.	Q78.			50 <sup>e</sup> MEDIANE
75TH				18.5	5.8	Q1.	Q88.			75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE					02E					CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	6(0)	2(1)	3(3)	3(1)	6(0)		2(0)	3(0)	MINIMUM
HIGH		.8	L.02	L.005	L.02	.7		1.08	.03	MAXIMUM
AVERAGE		2.	.06	L.005	.27	1.6		1.25	.11	MOYENNE
STD.DEV.		1.2	.040*		.117*	1.0		1.17	.06	ECART-TYPE
		.4	.028*		.134*	.3		.12	.04	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.9				.8		.		25 <sup>e</sup>
MEDIAN 50TH		1.0	.040*	L.005	.06	1.0		1.17	.04	50 <sup>e</sup> MEDIANE
75TH		1.3				1.2				75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

STATION 00CB07FC0002 LAT 56 D 25 M 20 S LONG 121 D 3 M 45 S

ITEM 10 619600 6254600  
OCT 24 1974 TO/A MAR 23 1976CHARLIE LAKE OUTLET AT SOUTH END OF  
CHARLIE LAKE NEAR FORT ST. JOHN

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	6(0)		6(0)		3(0)				ECHANTILLONS(IND.)
LOW	.04		12.		4.4				MINIMUM
HIGH	.163		47.		18.				MAXIMUM
AVERAGE	.099		19.0		9.6				MOYENNE
STD.DEV.	.050		13.8		7.3				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.055		12.						25 <sup>e</sup>
MEDIAN 50TH	.095		13.0		6.5				50 <sup>e</sup> MEDIANE
75TH	.144		17.						75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L								CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	COLIFORMS FECAL	COLIFORMS TOTAL	
	HG UG/L	LIG SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	N <sup>o</sup> / ML	N <sup>o</sup> / ML	
SAMPLES(FLAGS) 0301					6(0)	4(0)			ECHANTILLONS(IND.)
LOW					3.	116.			MINIMUM
HIGH					9.	134.			MAXIMUM
AVERAGE					5.5	123.			MOYENNE
STD.DEV.					2.5	8.			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					3.	118.			25 <sup>e</sup>
MEDIAN 50TH					5.5	120.			50 <sup>e</sup> MEDIANE
75TH					7.	127.			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FC0003 LAT. 56 D 16 M 15 S LONG. 120 D 57 M 5 S

UTM 10 626800E 6238000 N  
SEP 12, 1974 TO/A MAR 23, 1976CHARLIE LAKE TRIBUTARY AT SOUTH SIDE  
OF STODDART CR BRIDGE, MILE 64 ROAD

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS) 0301	6(0)		6(0)	2(0)	5(0)	6(0)	6(0)		ECHANTILLONS(IND.)
LOW	108.		44.	20.	4.5	7.	34.1		MINIMUM
HIGH	388.		156.	300.	64.	7.8	184.		MAXIMUM
AVERAGE	199.		82.7	160.	29.5		82.5		MOYENNE
STD.DEV.	98.		39.6	198.	23.5		52.3		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	147.		58.6		13.	7.1	58.2		25 <sup>e</sup>
MEDIAN 50TH	180.		74.2	160.	26.	7.2	68.3		50 <sup>e</sup> MEDIANE
75TH	192.		89.1		40.	7.4	82.		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			03E						CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301			6(0)	6(0)	6(4)	6(4)			ECHANTILLONS(IND.)
LOW			11.2	3.9	0.	Q40.			MINIMUM
HIGH			39.7	13.7	Q1.	Q223.			MAXIMUM
AVERAGE			21.37	7.1	0.*	100.*			MOYENNE
STD.DEV.			10.00	3.5	0.*	64.*			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			15.4	4.9	0.	71.			25 <sup>e</sup>
MEDIAN 50TH			19.20	6.4	1.	83.			50 <sup>e</sup> MEDIANE
75TH			23.5	7.4	Q1.	Q99.			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301	6(0)	1(0)	2(2)	2(0)	6(0)		1(0)	2(0)	ECHANTILLONS(IND.)
LOW	.6	.15	L.005	.02	.5		.85	.05	MINIMUM
HIGH	4.	.15	L.005	.15	2.1		.85	.41	MAXIMUM
AVERAGE	1.9			.085	1.3			.23	MOYENNE
STD.DEV.	1.4			.092	.7			.26	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.7				.6				25 <sup>e</sup>
MEDIAN 50TH	1.5		L.005	.085	1.4		.23		50 <sup>e</sup> MEDIANE
75TH	3.				1.9				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	01L								CODE DE SECOURS



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

STATION 00CB07FC0003 LAT. 56 D 16 M 15 S LONG. 120 D 57 M 5 S

UTM 10 626800E 6238000 N  
SEP 12 1974 TO/A MAR 23 1976CHARLIE LAKE TRIBUTARY AT SOUTH SIDE  
OF STODDART CR BRIDGE MILE 64 ROAD

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	6(0)		6(0)		2(0)				ECHANTILLONS(IND.)
LOW	.094		16.		5.2				MINIMUM
HIGH	.786		38.		5.8				MAXIMUM
AVERAGE	.316		28.3		5.5				MOYENNE
STD.DEV.	.260		8.5		.4				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.118		24.						25 <sup>e</sup>
MEDIAN 50TH	.239		27.0		5.5				50 <sup>e</sup> MEDIANE
75TH	.42		38.						75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L								CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36010E COLIFORMS TOTAL	
	HG UG/L	LIG SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO ML	MPN NO ML	
SAMPLES(FLAGS) 0301					6(0)	5(0)			ECHANTILLONS(IND.)
LOW					9.	146.			MINIMUM
HIGH					84.	320.			MAXIMUM
AVERAGE					35.2	224.			MOYENNE
STD.DEV.					28.0	65.			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					12.	202.			25 <sup>e</sup>
MEDIAN 50TH					31.0	202.			50 <sup>e</sup> MEDIANE
75TH					44.	252.			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0001 LAT. 56 D 7 M 40 S LONG. 120 D 34 M 0 S

UTM 10 651200E 6222800 N  
NOV 19, 1971 TO/A OCT 23, 1974PEACE RIVER FOUR MILES DOWNSTREAM FROM  
ALASKA HWY, BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	4(0)	1(1)	7(0)	8(0)	8(0)	5(0)	6(0)		ECHANTILLONS(IND.)
LOW		187.	Q108.	87.2	5.	2.5	7.9	83.		MINIMUM
HIGH		198.	Q108.	104.	60.	160.	8.	98.		MAXIMUM
AVERAGE		191.		96.7	18.	71.2		90.0		MOYENNE
STD.DEV.		5.		6.3	18.	72.6		5.8		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		187.		91.6	10.	7.2	8.	84.		25 <sup>e</sup>
MEDIAN 50TH		190.		99.	13.	41.5	8.	90.3		50 <sup>e</sup> MEDIANE
75TH		196.		103.	18.	155.0	8.	94.5		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E	21E					CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301	6(0)	5(0)	7(0)	6(0)	5(0)	5(0)	7(3)	7(0)	ECHANTILLONS(IND.)
LOW		.5	1.2	26.	5.4	0.	101.	0.	9.2	MINIMUM
HIGH		1.1	1.7	30.	6.7	0.	119.	.5	13.	MAXIMUM
AVERAGE		.8	1.5	28.30	6.0	0.	109.	.4*	11.3	MOYENNE
STD.DEV.		.3	.2	1.44	.5	0.	8.	.2*	1.6	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.5	1.3	27.3	5.7	0.	102.	.3	9.7	25 <sup>e</sup>
MEDIAN 50TH		.7	1.5	28.7	5.9	0.	109.	L.5	12.	50 <sup>e</sup> MEDIANE
75TH		1.	1.6	29.8	6.5	0.	115.	.5	13.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L	01L	01L	02E			01L		CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301	6(0)	4(0)	6(6)	8(2)	2(0)	1(0)	3(0)		ECHANTILLONS(IND.)
LOW		.1	.04	L.005	L.02	.2	.01	.18		MINIMUM
HIGH		.7	.11	L.005	.11	.3	.01	.41		MAXIMUM
AVERAGE		.3	.068		.051*	.3		.29		MOYENNE
STD.DEV.		.2	.030		.030*	.1		.12		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.2	.050	L.005	.025*			.		25 <sup>e</sup>
MEDIAN 50TH		.2	.060	L.005	.050	.3		.28		50 <sup>e</sup> MEDIANE
75TH		.5	.085	L.005	.065					75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE					01L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0001 LAT. 56 D 7 M 40 S LONG. 120 D 34 M 0 S

UTM 10 6512001 6222800 N  
NOV 19 1971 TO/A OCT 23 1974PEACE RIVER FOUR MILES DOWNSTREAM FROM  
ALASKA HWY BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SIO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	8(0)	5(0)	6(0)		5(0)	5(5)	5(3)	2(0)	ECHANTILLONS(IND.)
LOW	.005	3.2	3.		8.9	L.005	L.01	.03	MINIMUM
HIGH	.321	4.2	16.		12.8	L.005	L.02	7.9	MAXIMUM
AVERAGE	.097	3.8	10.5		11.4		.01*	3.96	MOYENNE
STD.DEV.	.123	.4	5.3		1.5		.00*	5.56	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.013	3.8	6		11.	L.005	L.01		25 <sup>e</sup>
MEDIAN 50TH	.028	3.8	11.5		11.8	L.005	.01	3.96	50 <sup>e</sup> MEDIANE
75TH	.186	4.1	15		12.4	L.005	.01		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	07L				53E 53L 52E		04E	CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	N MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
SAMPLES(FLAGS) 0301	5(3)	3(1)	1(0)	3(0)	5(4)		3(3)		ECHANTILLONS(IND.)
LOW	L.04	.001	.01	.001	L.005		L.001		MINIMUM
HIGH	.17	.02	.01	.002	.005		L.001		MAXIMUM
AVERAGE	.082*	.014*		.002	.005*				MOYENNE
STD.DEV.	.055*	.011*		.001	.000*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.04				L.005				25 <sup>e</sup>
MEDIAN 50TH	.06	L.02		.002	L.005		L.001		50 <sup>e</sup> MEDIANE
75TH	L.1				L.005				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L 03L	06L 04L	02E	07L	07L 04E 05L		04L		CODE DE SECOURS

	50011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36003E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG SULPH MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
SAMPLES(FLAGS) 0301		6(0)		6(4)	7(0)	1(0)	5(0)	7(0)	ECHANTILLONS(IND.)
LOW		.2		0.	8.8	744.	2.	8.	MINIMUM
HIGH		.5		.03	713.	744.	350.	1400.	MAXIMUM
AVERAGE		.28		.02*	174.5		124.	352.	MOYENNE
STD.DEV.		.12		.01*	266.0		138.	504.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.2		L.03	8.9		26.	22.	25 <sup>e</sup>
MEDIAN 50TH		.25		L.03	29.		110.	110.	50 <sup>e</sup> MEDIANE
75TH		.3		L.03	341.		130.	540.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02E				

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0002** LAT. **56 D 7 M 35 S** LONG. **120 D 34 M 0 S**UTM **10 651200 E 6222600 N**  
NOV 19, 1971 TO/À OCT 23, 1974PEACE RIVER FOUR MILES DOWNSTREAM FROM  
ALASKA HWY, BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	3(0)	1(1)	6(0)	7(0)	7(0)	4(0)	5(0)		ECHANTILLONS(IND.)
LOW		187.	Q107.	85.9	5.	1.9	7.9	82.5		MINIMUM
HIGH		187.	Q107.	103.	40.	850.	8.	93.		MAXIMUM
AVERAGE		187.		95.4	18.	159.3		88.5		MOYENNE
STD.DEV.		0.		6.3	16.	309.0		4.8		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				90.5	5.	7.5	8.0	84.4		25 <sup>e</sup>
MEDIAN 50TH		187.		96.5	10.	32.	8.0	90.		50 <sup>e</sup> MEDIANE
75TH				100.	40.	150.	8.0	92.5		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301	6(0)	6(0)	6(0)	5(0)	5(0)	5(0)	7(3)	7(0)	ECHANTILLONS(IND.)
LOW		.5	1.1	25.5	5.4	0.	101.	0.	8.7	MINIMUM
HIGH		.9	1.6	29.6	6.5	0.	113.	.5	13.	MAXIMUM
AVERAGE		.7	1.3	28.13	5.8	0.	108.	.4*	10.5	MOYENNE
STD.DEV.		.2	.2	1.57	.5	0.	6.	.2*	1.7	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.5	1.1	27.	5.4	0.	103.	L.3	9.2	25 <sup>e</sup>
MEDIAN 50TH		.6	1.2	28.75	5.6	0.	110.	L.5	9.6	50 <sup>e</sup> MEDIANE
75TH		.8	1.5	29.2	6.3	0.	113.	.5	12.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L	01L	01L	02E			01L		CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301	6(0)	3(0)	4(3)	6(2)	1(0)		2(0)		ECHANTILLONS(IND.)
LOW		.1	.04	L.000	L.02	.3		.2		MINIMUM
HIGH		1.6	.09	.005	.09	.3		.3		MAXIMUM
AVERAGE		.5	.063	.004*	.050*			.25		MOYENNE
STD.DEV.		.6	.025	.002*	.028*			.07		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.2		L.003	L.02					25 <sup>e</sup>
MEDIAN 50TH		.2	.06	L.005	.050			.25		50 <sup>e</sup> MEDIANE
75TH		.7		.005*	.07					75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L			01L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0002 LAT. 56 D 7 M 35 S LONG. 120 D 34 M 0 S

UTM 10 651200E 6222600 N  
NOV 19 1971 TO/A OCT 23 1974PEACE RIVER FOUR MILES DOWNSTREAM FROM  
ALASKA HWY BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	21101L CHROMIUM DISSOLVED CR	25104L MANGANESE DISSOLVED Mn	25304L MANGANESE TOTAL Mn	
SUBM ID	P MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	7(0)	4(0)	6(0)		5(0)	5(5)	5(4)	1(0)	ECHANTILLONS(IND.)
LOW	.004	3.2	3.		9.1	L.005	L.01	.01	MINIMUM
HIGH	.353	4.1	27.		12.8	L.005	L.02	.01	MAXIMUM
AVERAGE	.079	3.8	11.3		11.5		.01*		MOYENNE
STD.DEV.	.127	.4	8.9		1.5		.00*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.008	3.5	6		10.7	L.005	L.01		25 <sup>e</sup>
MEDIAN 50TH	.018	3.9	8.0		12.2	L.005	L.01		50 <sup>e</sup> MEDIANE
75TH	.12	4.0	16.		12.5	L.005	.01		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	07L				53L 52E 53E		04E	CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL Ni	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	81103L MERCURY DISSOLVED Hg	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	5(2)	1(0)	1(1)	3(1)	5(5)		3(2)	6(2)	ECHANTILLONS(IND.)
LOW	L.04	.02	L.01	L.001	L.005		L.001	L.05	MINIMUM
HIGH	.14	.02	L.01	.002	L.005		.001	.4	MAXIMUM
AVERAGE	.086*			.002*			.001*	.12*	MOYENNE
STD.DEV.	.041*			.001*			.000*	.14*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.05				L.005			L.05	25 <sup>e</sup>
MEDIAN 50TH	L.1			.002	L.005		L.001	.05	50 <sup>e</sup> MEDIANE
75TH	1				L.005			1	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L 03L	06L	01E	07L	05L 04E 07L		04L	11E	CODE DE SECOURS

	80011L MERCURY TOTAL Hg	06551L TANNIN AND LIGNIN LIG SULPH MG/L	06716L CHLORO- PHYLL A MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	10402L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	36010E COLIFORMS FECAL MG/L	36030E COLIFORMS TOTAL MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301		6(0)		6(5)	6(0)	1(0)	5(0)	7(0)	ECHANTILLONS(IND.)
LOW		.2		0.	9.2	296.	2.	22.	MINIMUM
HIGH		2.		L.03	2329.	296.	220.	700.	MAXIMUM
AVERAGE		.77		.02*	456.9		62.	214.	MOYENNE
STD.DEV.		.78		.01*	927.1		93	242	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		2		L.03	9.3		7	23	25 <sup>e</sup>
MEDIAN 50TH		.35		L.03	20.5		9.	170.	50 <sup>e</sup> MEDIANE
75TH		1.5		L.03	353.		70	280	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				01E	02E				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0003** LAT. **56 D 7 M 30 S** LONG. **120 D 34 M 0 S**UTM **10 651200E 6222400 N**  
NOV 19, 1971 TO/A OCT 23, 1974PEACE RIVER FOUR MILES DOWNSTREAM FROM  
ALASKA HWY, BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>4(0)</b>	<b>1(1)</b>	<b>6(0)</b>	<b>7(1)</b>	<b>7(0)</b>	<b>5(0)</b>	<b>6(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>187.</b>	<b>Q106.</b>	<b>93.</b>	<b>L5.</b>	<b>1.9</b>	<b>7.9</b>	<b>88.</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>220.</b>	<b>Q106.</b>	<b>113.</b>	<b>40.</b>	<b>850.</b>	<b>8.2</b>	<b>107.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>197.</b>		<b>102.3</b>	<b>17.*</b>	<b>165.1</b>		<b>99.6</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>16.</b>		<b>7.9</b>	<b>16.*</b>	<b>309.1</b>		<b>6.8</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>187.</b>		<b>95.9</b>	<b>5.</b>	<b>8.7</b>	<b>8.</b>	<b>95.5</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>190.</b>		<b>101.6</b>	<b>10.</b>	<b>34.</b>	<b>8.</b>	<b>102.0</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>206.</b>		<b>109.</b>	<b>40.</b>	<b>192.</b>	<b>8.</b>	<b>103.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>				<b>03E</b>						<b>CODE DE SECOURS</b>

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>5(0)</b>	<b>5(0)</b>	<b>6(0)</b>	<b>5(0)</b>	<b>5(0)</b>	<b>5(0)</b>	<b>6(1)</b>	<b>6(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.5</b>	<b>1.1</b>	<b>28.1</b>	<b>5.</b>	<b>0.</b>	<b>107.</b>	<b>.3</b>	<b>8.2</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.8</b>	<b>2.</b>	<b>32.4</b>	<b>7.3</b>	<b>1.</b>	<b>126.</b>	<b>.6</b>	<b>14.5</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.6</b>	<b>1.6</b>	<b>29.85</b>	<b>6.3</b>	<b>0.</b>	<b>119.</b>	<b>.5*</b>	<b>11.4</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.1</b>	<b>.4</b>	<b>1.81</b>	<b>.9</b>	<b>1.</b>	<b>8.</b>	<b>.1*</b>	<b>2.8</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.5</b>	<b>1.2</b>	<b>28.4</b>	<b>6.</b>	<b>0.</b>	<b>114.</b>	<b>L.5</b>	<b>9.2</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.6</b>	<b>1.6</b>	<b>29.35</b>	<b>6.5</b>	<b>0.</b>	<b>123.</b>	<b>.5</b>	<b>11.1</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.6</b>	<b>2.</b>	<b>31.5</b>	<b>6.8</b>	<b>0.</b>	<b>126.</b>	<b>.5</b>	<b>14.3</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>01L</b>	<b>01L</b>	<b>01L</b>	<b>02E</b>			<b>01L</b>		<b>CODE DE SECOURS</b>

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>5(0)</b>	<b>4(0)</b>	<b>6(5)</b>	<b>7(1)</b>	<b>2(0)</b>		<b>3(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.1</b>	<b>0.04</b>	<b>L.005</b>	<b>L.02</b>	<b>.3</b>		<b>.35</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>2.8</b>	<b>.11</b>	<b>.005</b>	<b>.13</b>	<b>.5</b>		<b>.61</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>1.0</b>	<b>.073</b>	<b>.005*</b>	<b>.067*</b>	<b>.4</b>		<b>.46</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>1.1</b>	<b>.038</b>	<b>.000*</b>	<b>.045*</b>	<b>.1</b>		<b>.14</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.3</b>	<b>.040</b>	<b>L.005</b>	<b>.03</b>					<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.4</b>	<b>.070</b>	<b>L.005</b>	<b>.04</b>	<b>.4</b>		<b>.41</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>1.5</b>	<b>.105</b>	<b>L.005</b>	<b>.11</b>					<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>01L</b>			<b>01L</b>					<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0003 LAT. 56 D 7 M 30 S LONG. 120 D 34 M 0 S

UTM 10 651200E 6222400 N  
NOV 19 1971 TO/A OCT 23 1974PEACE RIVER FOUR MILES DOWNSTREAM FROM  
ALASKA HWY BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	7(1)	4(0)	6(0)		4(0)	4(4)	4(4)	1(0)	ECHANTILLONS(IND.)
LOW	L.003	2.9	2.		9.2	L.005	L.01	.01	MINIMUM
HIGH	.489	3.7	36.		13.	L.005	L.02	.01	MAXIMUM
AVERAGE	.097*	3.3	13.3		11.1				MOYENNE
STD.DEV.	.177*	.4	13.4		1.7				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.005	3.0	4.		9.7	L.0050	L.01		25 <sup>e</sup>
MEDIAN 50TH	.024	3.3	7.5		11.1	L.0050	L.01		50 <sup>e</sup> MEDIANE
75TH	.109	3.7	23.		12.5	L.0050	L.01		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	07L	01E			53L 52E 53E		04E	CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
SAMPLES(FLAGS) 0301	4(0)	1(1)	1(1)	2(0)	4(3)		2(2)		ECHANTILLONS(IND.)
LOW	.04	L.02	L.01	.002	L.005		L.001		MINIMUM
HIGH	.2	L.02	L.01	.002	.05		L.001		MAXIMUM
AVERAGE	.095			.002	.016*				MOYENNE
STD.DEV.	.075			.000	.023*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.040				L.005				25 <sup>e</sup>
MEDIAN 50TH	.070			.002	L.005		L.001		50 <sup>e</sup> MEDIANE
75TH	.150				.027*				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L 03L	06L	02E	07L	04E 07L		04L		CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO./ML	MPN NO./ML	
SAMPLES(FLAGS) 0301		5(0)		5(3)	6(0)	1(0)	4(1)	6(0)	ECHANTILLONS(IND.)
LOW		.2		0.	8.7	266.	L2.	8.	MINIMUM
HIGH		10.		.13	2159.	266.	140.	920.	MAXIMUM
AVERAGE		2.46		.04*	472.2		74.*	274.	MOYENNE
STD.DEV.		4.26		.05*	859.2		71.*	364.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.2		L.03	9.6		12.*	33.	25 <sup>e</sup>
MEDIAN 50TH		.2		L.03	25.5		77.	95.	50 <sup>e</sup> MEDIANE
75TH		1.7		L.03	605.		135.	490.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

PEACE RIVER SUB-BASIN

STATION 00CB07FD0004 LAT. 56 D 6 M 30 S LONG. 120 D 14 M 0 S

UTM 10 672000E 6221400 N  
NOV 19, 1971 TO/A OCT 23, 1974

PEACE RIVER 6 MILES DOWNSTREAM FROM  
BEATTON RIVER, BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
SAMPLES(FLAGS)	0301	5(0)	1(1)	8(0)	9(0)	9(0)	5(0)	6(0)		ECHANTILLONS(IND.)
LOW		164.	Q109.	70.5	10.	3.3	7.8	78.5		MINIMUM
HIGH		198.	Q109.	101.	200.	410.	8.	94.5		MAXIMUM
AVERAGE		185.		89.1	65.	136.0		86.3		MOYENNE
STD.DEV.		14.		11.0	59.	148.0		6.2		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		179.		81.9	25.	17.	7.9	81.6		25 <sup>e</sup>
MEDIAN 50TH		187.		89.2	40.	128.	8.	86.3		50 <sup>e</sup> MEDIANE
75TH		198.		99.5	80.	144.	8.	91.		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E				02L		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0301	6(0)	4(0)	8(0)	7(0)	5(0)	5(0)	7(1)	7(0)	ECHANTILLONS(IND.)
LOW		.5	1.8	20.5	4.7	0.	99.	.3	10.2	MINIMUM
HIGH		1.9	2.9	30.2	6.5	0.	115.	1.1	23.4	MAXIMUM
AVERAGE		1.1	2.5	25.99	5.6	0.	107.	.6*	14.7	MOYENNE
STD.DEV.		.6	.5	3.44	.5	0.	7.	.3*	4.3	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.7	2.1	23.40	5.3	0.	101.	.3	12.	25 <sup>e</sup>
MEDIAN 50TH		1.0	2.6	26.40	5.6	0.	109.	.5	14.5	50 <sup>e</sup> MEDIANE
75TH		1.7	2.8	28.80	5.8	0.	111.	.9	15.5	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L		01L	02E			01L		CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0301	6(0)	5(0)	7(7)	9(0)	4(0)		4(0)		ECHANTILLONS(IND.)
LOW		.1	.03	L.005	.02	.2		.25		MINIMUM
HIGH		2.5	.05	L.005	.11	.6		.69		MAXIMUM
AVERAGE		.6	.042		.043	.4		.43		MOYENNE
STD.DEV.		.9	.008		.027	.2		.22		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.2	.04	L.005	.03	.2		.26		25 <sup>e</sup>
MEDIAN 50TH		.2	.04	L.005	.04	.4		.40		50 <sup>e</sup> MEDIANE
75TH		.5	.05	L.005	.05	.6		.61		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE					01L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FD0004 LAT. 56 D 6 M 30 S LONG. 120 D 14 M 0 S

UTM 10 672000 E 6221400 N  
NOV 19 1971 TO: A OCT 23 1974PEACE RIVER 6 MILES DOWNSTREAM FROM  
BEATTON RIVER BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24252L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25034L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	MG L	MG L	MG L	MG L	MN MG L	MN MG L	
SAMPLES(FLAGS) 0301	8(0)	4(0)	8(0)		6(0)	6(6)	6(5)	1(0)	ECHANTILLONS(IND.)
LOW	.011	3.8	3.		8.9	L.005	L.01	.02	MINIMUM
HIGH	1.1	4.2	42.		12.8	L.005	.03	.02	MAXIMUM
AVERAGE	.224	4.0	17.1		11.5		.02*		MOYENNE
STD.DEV.	.373	.2	11.8		1.5		.01*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.022	3.8	11.5		10.9	L.005	L.01		25 <sup>e</sup>
MEDIAN 50TH	.037	4.0	13.5		11.7	L.0050	L.01		50 <sup>e</sup> MEDIANE
75TH	.282	4.2	21.0		12.8	L.005	L.02		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	07L	01E			53E 52E 53L		04E	CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
SUBM ID	MG/L	MG/L	MG/L	MG L	MG L	MG L	MG/L	UG L	
SAMPLES(FLAGS) 0301	7(0)	1(0)	1(0)	5(0)	6(3)		5(5)		ECHANTILLONS(IND.)
LOW	.1	.02	.01	.002	L.005		L.001		MINIMUM
HIGH	.96	.02	.01	.003	.013		L.001		MAXIMUM
AVERAGE	.437			.002	.008*				MOYENNE
STD.DEV.	.285			.001	.004*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.15			.002	L.005		L.001		25 <sup>e</sup>
MEDIAN 50TH	.5			.002	.005*		L.001		50 <sup>e</sup> MEDIANE
75TH	.5			.003	.012		L.001		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L 03L	06L	01E		05L 07L 04E		04L		CODE DE SECOURS

	80011L MERCURY TOTAL HG	06551L TANNIN AND LIGNIN LIG SULPH.	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS LAS	10402L RESIDUE NONFILTR. MG L	10471L RESIDUE TOTAL MG L	36010E COLIFORMS FECAL MF NO./ML	36030E COLIFORMS TOTAL MPN NO./ML	
SUBM ID	UG/L	MG/L	MG/L	MG L	MG L	MG L			
SAMPLES(FLAGS) 0301		6(0)		6(3)	7(0)	1(0)	5(0)	8(0)	ECHANTILLONS(IND.)
LOW		.2		0.	12.7	748.	5.	17.	MINIMUM
HIGH		2.5		.15	1560.	748.	130.	2400.	MAXIMUM
AVERAGE		.98		.04*	322.0		54.	822.	MOYENNE
STD.DEV.		.89		.05*	562.1		46.	1019	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.3		L.03	20		40.	41.	25 <sup>e</sup>
MEDIAN 50TH		.65		L.03	32.		46.	380.	50 <sup>e</sup> MEDIANE
75TH		1.6		03	321		49.	1660.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02E				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0005 LAT. 56 D 6 M 25 S LONG. 120 D 14 M 0 S

UTM 10 672000E 6221200 N  
NOV 19, 1971 TO/À OCT 23, 1974PEACE RIVER 6 MILES DOWNSTREAM FROM  
BEATTON RIVER, BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301 4(0)		7(0)	8(0)	8(0)	5(0)	5(0)		ECHANTILLONS(IND.)
LOW	187.		89.2	5.	2.4	8.	86.2		MINIMUM
HIGH	198.		105.	50.	240.	8.1	93.5		MAXIMUM
AVERAGE	190.		98.1	18.	70.0		89.4		MOYENNE
STD.DEV.	5.		5.7	15.	88.3		3.0		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	188.		94.2	10.	9.8	8.	86.7		25 <sup>e</sup>
MEDIAN 50TH	188.		98.	10.	35.0	8.	90.		50 <sup>e</sup> MEDIANE
75TH	193.		105.	25.	114.0	8.	90.5		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			03E						CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301 6(0)	6(0)	7(0)	6(0)	4(0)	4(0)	7(2)	7(0)	ECHANTILLONS(IND.)
LOW	.4	1.3	26.5	5.3	0.	105.	.3	8.2	MINIMUM
HIGH	1.	2.	30.	6.7	0.	114.	.7	14.5	MAXIMUM
AVERAGE	.7	1.6	28.79	6.0	0.	109.	.5*	11.5	MOYENNE
STD.DEV.	.2	.3	1.27	.5	0.	4.	.1*	1.9	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.5	1.4	28.	5.6	0.	105.	.3	10.9	25 <sup>e</sup>
MEDIAN 50TH	.7	1.5	29.	6.0	0.	108.	L.5	12.	50 <sup>e</sup> MEDIANE
75TH	.9	1.9	30.	6.5	0.	112.	.6	12.2	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	01L	01L	01L	02E			01L		CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301 7(0)	4(0)	6(6)	8(1)	2(0)		3(0)		ECHANTILLONS(IND.)
LOW	.1	.03	L.005	L.02	.2		.24		MINIMUM
HIGH	.8	.09	L.005	.09	.2		.37		MAXIMUM
AVERAGE	.3	.055		.048*	.2		.30		MOYENNE
STD.DEV.	.2	.026		.029*	.0		.07		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.2	.035	L.005	.025					25 <sup>e</sup>
MEDIAN 50TH	.2	.050	L.005	.035	.2		.28		50 <sup>e</sup> MEDIANE
75TH	.4	.075	L.005	.075					75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				01L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FD0005 LAT. 56 D 6 M 25 S LONG. 120 D 14 M 0 S

UTM 10 672000E 6221200 N  
NOV 19 1971 TO/A OCT 23 1974PEACE RIVER 6 MILES DOWNSTREAM FROM  
BEATTON RIVER BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08102F OXYGEN DISSOLVED DO	24100F CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	MG/L	MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	8(0)	5(0)	7(1)	6(0)	5(5)	5(4)		ECHANTILLONS(IND.)
LOW	.01	3.1	L1.	9.1	L.005	L.01		MINIMUM
HIGH	.496	4.1	25.	12.9	L.005	L.02		MAXIMUM
AVERAGE	.107	3.6	9.4*	11.2		.01*		MOYENNE
STD.DEV.	.165	.4	9.0*	1.5		.00*		ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	.015	3.5	4.	10	L.005	L.01		25 <sup>e</sup>
MEDIAN 50TH	.030	3.7	5.	11.4	L.005	L.01		50 <sup>e</sup> MEDIANE
75TH	.129	3.8	19.	12.6	L.005	.01		75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE	06L	07L			53E 52E 53L			CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301	5(0)		1(1)	3(1)	5(3)		3(3)	5(4)	ECHANTILLONS(IND.)
LOW	.04		L.01	L.001	L.005		L.001	L.05	MINIMUM
HIGH	.14		L.01	.003	.05		L.001	.95	MAXIMUM
AVERAGE	.080			.002*	.015*			.23*	MOYENNE
STD.DEV.	.042			.001*	.020*			.40*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.04				L.005			L.05	25 <sup>e</sup>
MEDIAN 50TH	.08			.002	L.005		L.001	L.05	50 <sup>e</sup> MEDIANE
75TH	.1				.01			L.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	03L 04L		02E	07L	04E 05L 07L		04L	11E	CODE DE SECOURS

	80011L MERCURY TOTAL HG	06551L TANNIN AND LIGNIN LIG SULPH	06716L CHLORO- PHYLL A MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	36010E COLIFORMS FECAL NO/ML	36000E COLIFORMS TOTAL MPN NO/ML	
SUBM ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	NO/ML	NO/ML	
SAMPLES(FLAGS) 0301		6(0)		6(5)	7(0)	1(0)	5(0)	7(0)	ECHANTILLONS(IND.)
LOW		.1		0.	11.4	238.	2.	8.	MINIMUM
HIGH		6.		L.03	1582.	238.	79.	920.	MAXIMUM
AVERAGE		1.17		.02*	332.2		30.	261.	MOYENNE
STD.DEV.		2.37		.01*	584.1		33.	343.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.2		L.03	11.7		2.	33	25 <sup>e</sup>
MEDIAN 50TH		.20		L.03	29.		20.	110.	50 <sup>e</sup> MEDIANE
75TH		.3		L.03	548		49.	540.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0006 LAT. 56 D 6 M 20 S LONG. 120 D 14 M 0 S

UTM 10 672000E 6221000 N  
NOV 19, 1971 TO/À OCT 23, 1974PEACE RIVER 6 MILES DOWNSTREAM FROM  
BEATTON RIVER, BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	5(0)	1(1)	8(0)	8(1)	9(0)	6(0)	7(0)		ECHANTILLONS(IND.)
LOW		184.	Q112.	92.5	L5.	3.4	8.	88.2		MINIMUM
HIGH		209.	Q112.	108.	100.	220.	8.2	104.		MAXIMUM
AVERAGE		192.		99.3	28.*	78.3		95.1		MOYENNE
STD.DEV.		10.		6.8	34.*	95.2		5.6		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH				94.3	5.	9.4	8.	89.8		25 <sup>e</sup>
MEDIAN 50TH		188.		95.8	10.	31.	8.0	96.5		50 <sup>e</sup> MEDIANE
75TH		192.		107.0	45.	192.	8.1	98.5		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301	6(0)	6(0)	8(0)	7(0)	5(0)	5(0)	7(2)	7(0)	ECHANTILLONS(IND.)
LOW		.5	1.3	27.5	5.	0.	108.	0.	8.7	MINIMUM
HIGH		1.3	2.5	31.4	7.2	0.	120.	2.5	14.5	MAXIMUM
AVERAGE		.8	1.8	29.09	6.2	0.	115.	.7*	11.1	MOYENNE
STD.DEV.		.3	.4	1.58	.7	0.	6.	.8*	2.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.5	1.5	27.75	5.8	0.	109.	.3	9.2	25 <sup>e</sup>
MEDIAN 50TH		.7	1.7	28.45	6.1	0.	118.	L.5	11.	50 <sup>e</sup> MEDIANE
75TH		1.	2.2	30.70	6.7	0.	119.	.7	12.2	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L	01L	01L	02E			01L		CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301	7(0)	5(0)	7(6)	9(1)	3(0)		4(0)		ECHANTILLONS(IND.)
LOW		.1	.03	L.005	L.02	.1		.15		MINIMUM
HIGH		.8	.1	.005	.1	1.		1.09		MAXIMUM
AVERAGE		.3	.062	.005*	.048*	.4		.47		MOYENNE
STD.DEV.		.3	.029	.000*	.028*	.5		.43		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.1	.04	L.005	.03			.18		25 <sup>e</sup>
MEDIAN 50TH		.1	.06	L.005	.04	.2		.32		50 <sup>e</sup> MEDIANE
75TH		.4	.08	L.005	.06			.76		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE					01L	01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

00CB07FD0006

LAT 56° 6' 20" S LONG 120° 14' 0" W

STATION 10 672000 6221000

NOV 19 1971 TO/A OCT 23 1974

PEACE RIVER 6 MILES DOWNSTREAM FROM  
BEATTON RIVER BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	9(0)	5(0)	8(0)	1(0)	6(0)	6(5)	6(4)		ECHANTILLONS(IND.)
LOW	.009	3.0	2.	23.	9.1	L.005	L.01		MINIMUM
HIGH	.572	4.1	24.	23.	13.2	.005	.02		MAXIMUM
AVERAGE	.178	3.6	11.3		11.3	.0050*	.01*		MOYENNE
STD.DEV.	.212	.4	9.0		1.7	.0000*	.01*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.036	3.4	3.5		10.1	L.005	L.01		25 <sup>e</sup>
MEDIAN 50TH	.069	3.7	8.0		11.3	L.0050	.01*		50 <sup>e</sup> MEDIANE
75TH	.25	3.8	20.5		12.8	L.005	L.02		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	07L	01E			53E 53L 52E			CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301	6(2)			4(0)	6(4)		4(4)		ECHANTILLONS(IND.)
LOW	L.04			.002	L.005		L.001		MINIMUM
HIGH	.2			.002	.029		L.001		MAXIMUM
AVERAGE	.097*			.002	.011*				MOYENNE
STD.DEV.	.060*			.000	.010*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.04			.002	L.005		L.001		25 <sup>e</sup>
MEDIAN 50TH	.090*			.002	L.005		L.001		50 <sup>e</sup> MEDIANE
75TH	.12			.002	.02		L.001		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	03L 04L			07L	04E 05L 07L		04L		CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
SAMPLES(FLAGS) 0301		6(0)		6(4)	7(0)	1(0)	6(2)	8(0)	ECHANTILLONS(IND.)
LOW		.2		0.	10.8	190.	L2.	33.	MINIMUM
HIGH		8.		.03	2098.	190.	240.	350.	MAXIMUM
AVERAGE		1.55		.02*	478.0		54.*	143.	MOYENNE
STD.DEV.		3.16		.01*	752.8		93.*	124.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.2		L.03	18.		4.	45.	25 <sup>e</sup>
MEDIAN 50TH		.20		L.03	113.		13.*	79.	50 <sup>e</sup> MEDIANE
75TH		.5		L.03	583.		49.	255.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0007** LAT. **56 D 5 M 0 S** LONG. **120 D 9 M 10 S**UTM **10 677200E 6218800 N**

APR 19, 1972 TO/A OCT 23, 1974

KISKATINAW RIVER ONE HALF MILE ABOVE  
CONFLUENCE WITH PEACE RIVER

		02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0301	4(0)	1(0)	7(0)	7(0)	7(0)	6(0)	4(0)		MINIMUM
HIGH		198.	278.	102.	10.	44.	7.9	183.		MAXIMUM
AVERAGE		441.	278.	235.	300.	1150.	8.6	236.		MOYENNE
STD.DEV.		307.	172.0	85.	436.6			217.8		ECART-TYPE
		106.	56.1	103.	483.9			24.8		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		225.		115.	20.	50.	8.2	200.0		25 <sup>e</sup>
MEDIAN 50TH		295.		169.	30.	188.	8.3	226.0		50 <sup>e</sup> MEDIANE
75TH		390.		224.	125.	1100.	8.5	235.5		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBOND. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	6(0)	6(0)	8(0)	7(0)	4(0)	4(0)	5(0)	5(0)	MINIMUM
HIGH		1.	4.	28.	5.9	2.	202.	.8	6.8	MAXIMUM
AVERAGE		5.5	13.7	65.4	21.6	16.	279.	1.1	44.	MOYENNE
STD.DEV.		2.2	8.3	44.75	13.0	8.	249.	.9	26.7	ECART-TYPE
		1.7	4.3	15.34	5.6	6.	33.	.1	15.3	
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		1.1	4.	30.30	8.5	3.	228.	.8	18.5	25 <sup>e</sup>
MEDIAN 50TH		1.5	7.9	43.00	11.7	7.	257.	.9	24.5	50 <sup>e</sup> MEDIANE
75TH		2.6	12.5	59.00	18.	13.	270.	1.	39.8	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L	01L	01L	02E			01L		CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	6(0)	5(1)	6(5)	8(1)	3(0)		3(0)		MINIMUM
HIGH		.4	L.02	L.005	L.02	.4		.44		MAXIMUM
AVERAGE		4.9	.11	.005	.1	1.		1.03		MOYENNE
STD.DEV.		1.8	.040*	.005*	.046*	.7		.75		ECART-TYPE
		2.0	.039*	.000*	.033*	.3		.30		
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.4	.02	L.005	.020					25 <sup>e</sup>
MEDIAN 50TH		.7	.02	L.005	.030	.7		.77		50 <sup>e</sup> MEDIANE
75TH		3.7	.03	L.005	.075					75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		01L			01L	01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

STATION 00CB07FD0007 LAT. 56 D 5 M 0 S LONG. 120 D 9 M 10 S

UTM 10 677200E 6218800 N  
APR 19 1972 TO/A OCT 23 1974KISKATINAW RIVER ONE HALF MILE ABOVE  
CONFLUENCE WITH PEACE RIVER

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED CR	25104L MANGANESE DISSOLVED MN	25004L MANGANESE TOTAL MN	
SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	8(0)	5(0)	8(0)		6(0)	7(6)	7(5)		ECHANTILLONS(IND.)
LOW	.022	3.7	9.		8.6	L.005	L.01		MINIMUM
HIGH	2.37	5.9	84.		13.2	.01	L.02		MAXIMUM
AVERAGE	.426	4.7	36.8		11.0	.0057*	.01*		MOYENNE
STD.DEV.	.803	.8	27.2		1.7	.0019*	.01*		ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH	.042	4.3	14.0		10.1	L.005	L.01		25 <sup>e</sup>
MEDIAN 50TH	.082	4.4	30.5		10.9	L.005	.01		50 <sup>e</sup> MEDIANE
75TH	.383	5.1	56.0		12.4	L.005	L.02		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L	07L	01E			53L 53E			CODÉ DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED Pb	80111L MERCURY DISSOLVED Hg	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	7(1)			6(0)	7(3)		5(5)	6(5)	ECHANTILLONS(IND.)
LOW	.04			.001	L.005		L.001	L.05	MINIMUM
HIGH	.35			.01	.09		L.001	.06	MAXIMUM
AVERAGE	.163*			.005	.021*			.05*	MOYENNE
STD.DEV.	.109*			.004	.032*			.00*	ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH	.05			.003	L.005		L.001	L.05	25 <sup>e</sup>
MEDIAN 50TH	.2			.003	.005		L.001	L.05	50 <sup>e</sup> MEDIANE
75TH	.2			.008	.03		L.001	L.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L 03L			07L 06L	07L 05L		04L	01L	CODÉ DE SECOURS

	80011L MERCURY TOTAL HG	06551L TANNIN AND LIGNIN LIG SULPH.	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MP NO. ML	MPN NO. ML	
SAMPLES(FLAGS) 0301		5(0)		5(4)	7(0)	1(0)	6(0)	7(1)	ECHANTILLONS(IND.)
LOW		.2		L.03	40.	2800.	6.	7.	MINIMUM
HIGH		5.		.05	5726.	2800.	220.	5400.	MAXIMUM
AVERAGE		1.56		.03*	1401.9		56.	1382.	MOYENNE
STD.DEV.		1.97		.01*	2164.9		81	2006*	ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH		.4		L.03	56.		20	27	25 <sup>e</sup>
MEDIAN 50TH		.9		L.03	274.		23.	170.	50 <sup>e</sup> MEDIANE
75TH		1.3		L.03	2929.		46	G2400	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODÉ DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0008 LAT. 56 D 8 M 35 S LONG. 120 D 41 M 0 S

UTM 10 644000E 6224200 N  
MAR 16, 1972 TO/À JUN 07, 1973PACIFIC PETROLEUM, RAW WATER FROM PUMP  
BEARING COOLING WATER AT TAYLOR,

		02041L SPECIFIC CONDUCT.	10301L PH	07401E NITROGEN TOTAL ORGANIC	07554L NITROGEN DISSOLVED AMMONIA	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	08102F OXYGEN DISSOLVED	16102E SULFIDE DISSOLVED	
	SUBM ID	USIE/CM	PH UNITS	N MG/L	N MG/L	P MG/L	C MG/L	DO O2 MG/L	S MG/L	
SAMPLES(FLAGS)	0301	4(0)	4(0)	6(0)	6(4)	5(0)	2(1)	1(0)	5(5)	ECHANTILLONS(IND.)
LOW		187.	7.7	.11	L.01	.016	L1.	10.	L.5	MINIMUM
HIGH		200.	8.3	.31	.11	.107	18.	10.	L0.	MAXIMUM
AVERAGE		192.		.17	.027*	.050	9.5*			MOYENNE
STD.DEV.		6.		.08	.041*	.039	12.0*			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		188.	7.8	.12	L.01	.017			L.5	25 <sup>e</sup>
MEDIAN 50TH		191.	8.0	.13	L.010	.04	9.5*		L.5	50 <sup>e</sup> MEDIANE
75TH		197.	8.2	.24	.01	.069			L.5	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		08201L OXYGEN BIOCHEM.	08301L OXYGEN TOTAL COD	06531L PHENOLIC MATERIAL	06601L CYANIDE	24003E CHROMIUM TOTAL	24053E CHROMIUM DISSOLVED	28002E NICKEL TOTAL	29004L COPPER TOTAL	
	SUBM ID	O2 MG/L	O2 MG/L	PHENOL MG/L	CN MG/L	CR MG/L	CR MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS)	0301	3(3)	4(2)	3(2)	5(5)	5(5)	1(1)	5(3)	1(0)	ECHANTILLONS(IND.)
LOW		L10.	L10.	L.002	L.01	L.005	L.005	L.01	.006	MINIMUM
HIGH		L10.	17.	.008	L.01	L.005	L.005	.02	.006	MAXIMUM
AVERAGE			13.*	.004*				.014*		MOYENNE
STD.DEV.			3.*	.003*				.005*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			L10.		L.01	L.005		L.01		25 <sup>e</sup>
MEDIAN 50TH		L10.	12.*	L.002	L.01	L.005		L.01		50 <sup>e</sup> MEDIANE
75TH			15.		L.01	L.005		.02		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		30005L ZINC TOTAL	80013E MERCURY TOTAL	82004L LEAD TOTAL	82101E LEAD DISSOLVED	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	10505L RESIDUE FIXED NONFILTR.	
	SUBM ID	ZN MG/L	HG UG/L	PB MG/L	PB MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301	1(0)	1(0)	1(1)	2(2)	5(0)	6(0)	1(0)	ECHANTILLONS(IND.)
LOW		.02	.7	L.001	L.00	5.	118.	202.	MINIMUM
HIGH		.02	.7	L.001	L.00	102.	228.	202.	MAXIMUM
AVERAGE						40.	170.		MOYENNE
STD.DEV.						39.	46.		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH						13.	128.		25 <sup>e</sup>
MEDIAN 50TH					L.00	31.	164.		50 <sup>e</sup> MEDIANE
75TH						50.	220.		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		04L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FD0009 LAT. 55 D 57 M 40 S LONG. 120 D 33 M 25 S

UTM 10 652600 E 6204200 N  
MAR 25 1976 TO/A NOV 03 1976KISKATINAW RIVER AT ALASKA HWY BRIDGE  
BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603E HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS
SUBM ID	USIE CM							
SAMPLES(FLAGS) 0301	7(0)		7(0)	2(0)	7(0)	6(0)	3(0)	ECHANTILLONS(IND.)
LOW	244.		122.	40.	26.	7.9	207.	MINIMUM
HIGH	510.		260.	50.	750.	8.6	249.	MAXIMUM
AVERAGE	351.		179.9	45.	228.6		234.0	MOYENNE
STD.DEV.	108.		56.7	7.	282.2		23.4	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	259.		131.		36.	8.		25 <sup>e</sup>
MEDIAN 50TH	310.		159.	45.	62.	8.2	246.	50 <sup>e</sup> MEDIANE
75TH	477.		249.		480.	8.4		75 <sup>e</sup>
90TH								90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102E MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L
SUBM ID								
SAMPLES(FLAGS) 0301	1(0)	1(0)	7(0)	7(0)	2(0)	2(0)	1(0)	6(0)
LOW	3.1	13.4	34.6	8.6	3.	235.	1.7	6.3
HIGH	3.1	13.4	73.2	18.8	8.	293.	1.7	35.2
AVERAGE			51.26	12.6	6.	264.		16.6
STD.DEV.			15.74	4.3	4.	41.		10.1
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH			38.	8.8			10.	25 <sup>e</sup>
MEDIAN 50TH			45.3	11.2	6.	264.	15.0	50 <sup>e</sup> MEDIANE
75TH			70.	18.1			18.2	75 <sup>e</sup>
90TH								90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254L PHOSPHATE DISSOLVED ORTHO PO4 MG/L
SUBM ID								
SAMPLES(FLAGS) 0301	6(0)	6(3)	3(2)	3(2)	6(0)	6(0)	4(0)	
LOW	.3	L.02	L.005	L.02	.28	.015	.3	
HIGH	3.	.17	.006	.02	2.96	.039	3.03	
AVERAGE	.97	.047*	.005*	.020*	.94	.027	1.13	
STD.DEV.	1.04	.061*	.001*	.000*	1.04	.009	1.29	
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	.32	L.02			.29	.02	.31	25 <sup>e</sup>
MEDIAN 50TH	.60	.020*	L.005	L.02	.58	.027	.60	50 <sup>e</sup> MEDIANE
75TH	1.	.03			.97	.033	1.96	75 <sup>e</sup>
90TH								90 <sup>e</sup>

SECONDARY CODE 01L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives.

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0009 LAT. 55 D 57M 40 S LONG. 120 D 33M 25 S

UTM 10 652600E 6204200 N  
MAR 25, 1976 TO/À NOV 03, 1976KISKATINAW RIVER AT ALASKA HWY BRIDGE,  
BRITISH COLUMBIA

		15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002L CHROMIUM TOTAL	25004L MANGANESE TOTAL	
	SUBM ID	P MG/L	C MG/L	C MG/L	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	
SAMPLES(FLAGS)	0301	7(0)	6(1)	4(0)	2(0)	5(3)	4(0)	6(1)	6(0)	ECHANTILLONS(IND.)
LOW		.038	L1.	40.	8.7	L.01	.003	L.005	.04	MINIMUM
HIGH		1.22	41.	69.	11.2	8.7	.018	.05	.56	MAXIMUM
AVERAGE		.343	16.3*	54.3	10.0	2.53*	.009	.017*	.15	MOYENNE
STD.DEV.		.449	14.0*	12.5	1.8	3.84*	.007	.018*	.20	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.043	8.	44.5		L.01	.004	.006	.05	25 <sup>e</sup>
MEDIAN 50TH		.078	13.0	54.0	9.9	L.01	.008	.008	.06	50 <sup>e</sup> MEDIANE
75TH		.676	22.	64.0		3.9	.015	.025	.14	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						02E		04L		CODE DE SECOURS

		26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	30003L ZINC TOTAL	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48003L CADMIUM TOTAL	80013L MERCURY TOTAL	
	SUBM ID	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG UG/L	
SAMPLES(FLAGS)	0301	6(0)	6(4)	6(0)	6(0)	6(4)	6(0)	5(3)	5(4)	ECHANTILLONS(IND.)
LOW		1.4	L.01	.002	.007	L.005	.0005	L.0005	L.05	MINIMUM
HIGH		40.3	.06	.07	.26	.011	.0029	L.005	.1	MAXIMUM
AVERAGE		10.15	.018*	.020	.070	.006*	.0011	.0016*	.06*	MOYENNE
STD.DEV.		15.06	.020*	.026	.096	.002*	.0009	.0019*	.02*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		1.7	L.01	.003	.008	L.005	.0005	L.0005	L.05	25 <sup>e</sup>
MEDIAN 50TH		4.15	L.010	.009	.037	L.005	.0009	.0011	L.05	50 <sup>e</sup> MEDIANE
75TH		9.2	.01	.029	.07	.006	.001	.0011	L.05	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			02E	05L 06L	05L 04L			02L	13E	CODE DE SECOURS

		82002L LEAD TOTAL	09108L FLUORIDE DISSOLVED	10151L ALKALINITY PHENOL PHTHALEIN	06551L TANNIN AND LIGNIN	10401L RESIDUE NONFILTR.	10452L RESIDUE FILTERABLE	10471L RESIDUE TOTAL	
	SUBM ID	PB MG/L	F MG/L	CACO3 MG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0301	6(2)	5(3)	2(0)	6(0)	7(0)	5(0)	7(0)	ECHANTILLONS(IND.)
LOW		L.001	L.1	2.7	.5	29.	158.	264.	MINIMUM
HIGH		.017	.11	7.	1.8	1463.	324.	1638.	MAXIMUM
AVERAGE		.005*	.10*	4.8	1.1	388.	225.	613.	MOYENNE
STD.DEV.		.006*	.01*	3.0	.5	545.	65.	507.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.001	L.1		.7	38.	190.	294.	25 <sup>e</sup>
MEDIAN 50TH		.003	L.1	4.8	1.0	62.	200.	356.	50 <sup>e</sup> MEDIANE
75TH		.007	.11		1.6	768.	252.	928.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE						02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0010 LAT. 55 D 44 M 20 S LONG. 120 D 33 M 10 S

UTM 10 653600 6179600 N  
MAR 25 1976 TO/A NOV 03 1976KISKATINAW RIVER NEAR HART HWY BRIDGE  
AT ARRAS BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
	SUBM ID	USIE CM	CACO3 MG/L	REL UNITS	JTU	PH-UNITS	CACO3 MG/L	CACO3 MG/L	
SAMPLES(FLAGS)	0301	7(0)	7(0)		7(0)	7(0)	4(0)	1(0)	ECHANTILLONS(IND.)
LOW		234.	119.		19.	7.6	153.	5.5	MINIMUM
HIGH		470.	247.		432.	8.6	247.	5.5	MAXIMUM
AVERAGE		336.	175.0		161.6		212.3		MOYENNE
STD.DEV.		96	50.8		186.6		43.1		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		259	134.		22.	8.	180.5		25 <sup>e</sup>
MEDIAN 50TH		286.	153.		62.	8.1	224.5		50 <sup>e</sup> MEDIANE
75TH		450.	236.		425.	8.3	244.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	SUBM ID	CA MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG SULPH MG/L	
SAMPLES(FLAGS)	0301	7(0)	7(0)	1(0)	1(0)	6(0)	5(4)	6(0)	ECHANTILLONS(IND.)
LOW		33.7	8.4	7.	240.	5.6	L.01	.5	MINIMUM
HIGH		71.7	16.7	7.	240.	10.7	.11	3.2	MAXIMUM
AVERAGE		50.59	11.9			7.4	.08*	1.3	MOYENNE
STD.DEV.		14.62	3.5			1.8	.04*	1.0	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		39.1	8.9			6.3	L.1	.7	25 <sup>e</sup>
MEDIAN 50TH		44.5	10.1			7.1	L.1	.9	50 <sup>e</sup> MEDIANE
75TH		67.	16.6			7.7	L.1	1.5	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02E						CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	C MG/L	
SAMPLES(FLAGS)	0301	7(0)	7(6)	7(0)	7(0)	5(0)	6(3)	7(0)	ECHANTILLONS(IND.)
LOW		.25	L.02	.23	.017	.25	L.003	1.	MINIMUM
HIGH		1.	.07	.97	.05	1.	.011	30.	MAXIMUM
AVERAGE		.58	.027*	.55	.029	.50	.006*	12.3	MOYENNE
STD.DEV.		.31	.019*	.30	.011	.30	.004*	10.3	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		3	L.02	.28	.019	.3	L.003	3.	25 <sup>e</sup>
MEDIAN 50TH		.5	L.02	.48	.027	.43	.005*	9.	50 <sup>e</sup> MEDIANE
75TH		1	L.02	.97	.031	.5	.01	21.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		01L							

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## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0010 LAT. 55 D 44 M 20 S LONG. 120 D 33 M 10 S

UTM 10 653600 E 6179600 N  
MAR 25, 1976 TO/A NOV 03, 1976KISKATINAW RIVER NEAR HART HWY BRIDGE  
AT ARRAS, BRITISH COLUMBIA

	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
SAMPLES(FLAGS) 0301	1(0)	5(4)	4(0)	6(1)	6(0)	6(0)		6(4)	ECHANTILLONS(IND.)
LOW	8.8	L.01	.002	L.005	.04	1.1		L.01	MINIMUM
HIGH	8.8	5.6	.016	.077	.3	21.7		.03	MAXIMUM
AVERAGE		1.13*	.006	.020*	.10	5.87		.013*	MOYENNE
STD.DEV.		2.50*	.007	.028*	.10	8.02		.008*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.01	.003	.006	.05	1.4		L.01	25 <sup>e</sup>
MEDIAN 50TH		L.01	.004	.007	.06	2.20		L.010	50 <sup>e</sup> MEDIANE
75TH		L.01	.010	.016	.11	6.6		.01	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E						02E	CODE DE SECOURS

	29005L COPPER TOTAL	29107L COPPER DISSOLVED	30005L ZINC TOTAL	30107L ZINC DISSOLVED	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	
SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG UG/L	
SAMPLES(FLAGS) 0301	4(0)		6(0)		4(3)	6(3)	6(3)	6(6)	ECHANTILLONS(IND.)
LOW	.002		.013		L.005	L.0005	L.0005	L.05	MINIMUM
HIGH	.013		.1		.007	.0024	.0018	L.05	MAXIMUM
AVERAGE	.006		.032		.005*	.0009*	.0009*		MOYENNE
STD.DEV.	.005		.034		.001*	.0007*	.0006*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.004		.015		L.005	L.0005	L.0005	L.05	25 <sup>e</sup>
MEDIAN 50TH	.005		.020		L.005	.0006*	.0007*	L.05	50 <sup>e</sup> MEDIANE
75TH	.009		.022		.006*	.0008	.0014	L.05	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			04L						CODE DE SECOURS

	82002L LEAD TOTAL	82104L LEAD DISSOLVED	36000E COLIFORMS TOTAL	36010E COLIFORMS FECAL	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	PB MG/L	PB MG/L	MPN NO/ML	MF NO/ML	MG/L	MG/L	
SAMPLES(FLAGS) 0301	6(1)				7(0)	5(0)	ECHANTILLONS(IND.)
LOW	L.001				258.	154.	MINIMUM
HIGH	.017				948.	242.	MAXIMUM
AVERAGE	.007*				477.	195.	MOYENNE
STD.DEV.	.006*				301.	33.	ECART-TYPE
PERCNT:10TH							10 <sup>e</sup> PERCNT
25TH	.002				278.	184.	25 <sup>e</sup>
MEDIAN 50TH	.006				302.	188.	50 <sup>e</sup> MEDIANE
75TH	.013				876.	208.	75 <sup>e</sup>
90TH							90 <sup>e</sup>
SECONDARY CODE							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FD0011 LAT 55 D 47 M 10 S LONG 120 D 19 M 15 S

UTM 10 668000 6185200 N

APR 30 1974 TO/A JUL 17 1975

DAWSON CREEK AT ALASKA HWY MI. 4 100  
FT D/S OF CONFLUENCE WITH UNNAMED CR.

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS
SAMPLES(FLAGS)	0301	7(0)	1(0)			6(0)	6(0)	ECHANTILLONS(IND.)
LOW		133.	58.2			7.3	35.5	MINIMUM
HIGH		530.	58.2			7.8	150.	MAXIMUM
AVERAGE		364.					88.1	MOYENNE
STD.DEV.		155.					42.1	ECART-TYPE
PERCENT:10TH								10 <sup>e</sup> PERCNT
25TH		170.				7.4	46.5	25 <sup>e</sup>
MEDIAN 50TH		441.				7.5	93.3	50 <sup>e</sup> MEDIANE
75TH		462.				7.8	110.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE			03E				02L	CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L
SAMPLES(FLAGS)	0301		1(0)	1(0)	1(0)	1(0)	7(0)	ECHANTILLONS(IND.)
LOW			15.4	4.8	0.	43.	1.4	MINIMUM
HIGH			15.4	4.8	0.	43.	4.	MAXIMUM
AVERAGE							2.7	MOYENNE
STD.DEV.							.9	ECART-TYPE
PERCENT:10TH								10 <sup>e</sup> PERCNT
25TH							2.2	25 <sup>e</sup>
MEDIAN 50TH							2.6	50 <sup>e</sup> MEDIANE
75TH							3.5	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE				02E				CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07205L NITROGEN DISSOLVED	07301E NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07554L NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	ORGANIC MG/L	N MG/L	N MG/L	ORTHOPHOSPHATE PO4 MG/L
SAMPLES(FLAGS)	0301	5(3)	6(4)	6(4)	1(0)	1(0)		4(0)
LOW		L.02	L.005	L.02	1.	.07		.01
HIGH		.04	.011	.03	1.	.07		.04
AVERAGE		.024*	.006*	.023*				.03
STD.DEV.		.009*	.002*	.005*				.01
PERCENT:10TH								10 <sup>e</sup> PERCNT
25TH		L.02	L.005	L.02				.02
MEDIAN 50TH		L.02	L.005	L.020				.03
75TH		.02	.005	.03				.04
90TH								75 <sup>e</sup>
SECONDARY CODE					01L			90 <sup>e</sup>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0011** LAT. **55 D 47 M 10 S** LONG. **120 D 19 M 15 S**UTM **10 668000E 6185200 N**  
APR 30, 1974 TO/À JUL 17, 1975DAWSON CREEK AT ALASKA HWY MI. 4, 100  
FT D/S OF CONFLUENCE WITH UNNAMED CR.

		15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
	SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>5(0)</b>		<b>6(0)</b>		<b>5(0)</b>				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.108</b>		<b>17.</b>		<b>5.4</b>				<b>MINIMUM</b>
<b>HIGH</b>		<b>.196</b>		<b>33.</b>		<b>8.8</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.148</b>		<b>25.5</b>		<b>7.5</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.039</b>		<b>6.3</b>		<b>1.3</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.111</b>		<b>22.</b>		<b>7.4</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.152</b>		<b>24.0</b>		<b>7.7</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.175</b>		<b>33.</b>		<b>8.4</b>				<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE		06L		01E						CODE DE SECOURS

		26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>6(0)</b>	<b>1(0)</b>							<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.3</b>	<b>2.1</b>							<b>MINIMUM</b>
<b>HIGH</b>		<b>.8</b>	<b>2.1</b>							<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.500</b>								<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.200</b>								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.4</b>								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.400</b>								<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.7</b>								<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE		04L	04L							CODE DE SECOURS

		80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
	SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>					<b>7(0)</b>	<b>7(0)</b>	<b>2(1)</b>	<b>2(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>						<b>9.</b>	<b>206.</b>	<b>5.</b>	<b>20.</b>	<b>MINIMUM</b>
<b>HIGH</b>						<b>111.</b>	<b>480.</b>	<b>120.</b>	<b>33.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>						<b>48.0</b>	<b>349.</b>	<b>12.*</b>	<b>27.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>						<b>35.8</b>	<b>97.</b>	<b>11.*</b>	<b>9.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						<b>16.</b>	<b>250.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>						<b>46.</b>	<b>352.</b>	<b>12.*</b>	<b>27.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						<b>69.</b>	<b>438.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

STATION 00CB07FD0012 LAT 55° 46' N 0° LONG 120° 15' W

ELEV 10 671600 6183200 M  
APR 30 1974 TO/A JUL 17 1975DAWSON CREEK AT HART HWY DOWNSTREAM  
FROM END OF CULVERT BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH. UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH. UNITS
SAMPLES(FLAGS)	0301	7(0)	1(0)			6(0)	4(0)	ECHANTILLONS(IND.)
LOW		168.	71.8			7.6	41.5	MINIMUM
HIGH		599.	71.8			8.	144.	MAXIMUM
AVERAGE		409.					90.3	MOYENNE
STD.DEV.		174.					49.5	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH		196.				7.6	48.5	25 <sup>e</sup>
MEDIAN 50TH		448.				7.7	87.8	50 <sup>e</sup> MEDIANE
75TH		552.				7.9	132.0	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE			03E					CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L
SAMPLES(FLAGS)	0301		1(0)	1(0)	1(0)	1(0)	7(0)	ECHANTILLONS(IND.)
LOW			18.2	6.4	0.	51.	1.8	MINIMUM
HIGH			18.2	6.4	0.	51.	49.1	MAXIMUM
AVERAGE							10.9	MOYENNE
STD.DEV.							17.0	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH							2.5	25 <sup>e</sup>
MEDIAN 50TH							5.1	50 <sup>e</sup> MEDIANE
75TH							9.4	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE				02E				CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L
SAMPLES(FLAGS)	0301	5(3)	6(3)	6(3)	1(0)	1(0)		4(0)
LOW		L.02	L.005	L.02	1.	.08		.00
HIGH		.15	.013	.14	1.	.08		.04
AVERAGE		.064*	.007*	.053*				.01
STD.DEV.		.062*	.004*	.053*				.02
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH		L.02	L.005	L.02				.01
MEDIAN 50TH		L.02	.005*	.020*				.01
75TH		.11	.012	.1				.02
90TH								75 <sup>e</sup>
SECONDARY CODE					01L			90 <sup>e</sup>
								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0012 LAT. 55 D 46 M 0 S LONG. 120 D 15 M 55 S

UTM 10 671600E 6183200 N  
APR 30, 1974 TO/A JUL 17, 1975DAWSON CREEK AT HART HWY, DOWNSTREAM  
FROM END OF CULVERT, BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	5(0)		6(0)		5(0)				ECHANTILLONS(IND.)
LOW	.064		16.		5.4				MINIMUM
HIGH	.2		99.		9.				MAXIMUM
AVERAGE	.153		38.2		8.0				MOYENNE
STD.DEV.	.061		30.8		1.5				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.114		21.		8.3				25 <sup>e</sup>
MEDIAN 50TH	.188		27.0		8.5				50 <sup>e</sup> MEDIANE
75TH	.199		39.		8.8				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L		01E						CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
SAMPLES(FLAGS) 0301	6(1)	1(0)							ECHANTILLONS(IND.)
LOW	L.1	1.8							MINIMUM
HIGH	.5	1.8							MAXIMUM
AVERAGE	.250*								MOYENNE
STD.DEV.	.164*								ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.1								25 <sup>e</sup>
MEDIAN 50TH	.200								50 <sup>e</sup> MEDIANE
75TH	.4								75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L	04L							CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
SAMPLES(FLAGS) 0301					7(0)	6(0)	2(1)	2(0)	ECHANTILLONS(IND.)
LOW					14.	248.	L20.	80.	MINIMUM
HIGH					4660.	554.	49.	350.	MAXIMUM
AVERAGE					740.6	402.	34.*	215.	MOYENNE
STD.DEV.					1729.4	133.	21.*	191.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					24.	268.			25 <sup>e</sup>
MEDIAN 50TH					92.	396.	34.*	215.	50 <sup>e</sup> MEDIANE
75TH					200.	552.			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FD0013 LAT 55 D 45 M 20 S LONG 120 D 15 M 55 S

ITEM 10 671600 6182000

APR 30 1974 TO/A JUL 17 1975

SOUTH DAWSON CREEK AT 17 AVE DAWSON  
CREEK BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS) 0301	7(0)		1(0)			5(0)	5(0)		ECHANTILLONS(IND.)
LOW	173.		74.2			7.6	42.5		MINIMUM
HIGH	810.		74.2			7.8	168.		MAXIMUM
AVERAGE	414.						89.3		MOYENNE
STD.DEV.	226.						52.9		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	206.					7.6	57.2		25 <sup>e</sup>
MEDIAN 50TH	335.					7.7	59.7		50 <sup>e</sup> MEDIANE
75TH	592.					7.7	119.		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			03E						CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS) 0301			1(0)	1(0)	1(0)	1(0)	7(0)		ECHANTILLONS(IND.)
LOW			19.	6.5	0.	52.	2.5		MINIMUM
HIGH			19.	6.5	0.	52.	22.9		MAXIMUM
AVERAGE							9.1		MOYENNE
STD.DEV.							7.1		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH							2.8		25 <sup>e</sup>
MEDIAN 50TH							8.1		50 <sup>e</sup> MEDIANE
75TH							12.5		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07554L NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	
SAMPLES(FLAGS) 0301		5(3)	6(2)	6(4)	1(0)	1(0)		4(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	1.	.06		.01	MINIMUM
HIGH		.44	.038	.4	1.	.06		.04	MAXIMUM
AVERAGE		.112*	.012*	.088*				.02	MOYENNE
STD.DEV.		.184*	.013*	.153*				.01	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.02	L.005	L.02				.01	25 <sup>e</sup>
MEDIAN 50TH		L.02	.006	L.020				.02	50 <sup>e</sup> MEDIANE
75TH		.06	.011	.05				.03	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0013** LAT. **55 D 45 M 20 S** LONG. **120 D 15 M 55 S**UTM **10 671600E 6182000 N**  
APR 30, 1974 TO/A JUL 17, 1975SOUTH DAWSON CREEK AT 17 AVE, DAWSON  
CREEK, BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SIO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)		6(0)		5(0)				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.095</b>		<b>18.</b>		<b>7.6</b>				<b>MINIMUM</b>
<b>HIGH</b>	<b>.464</b>		<b>66.</b>		<b>9.6</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.203</b>		<b>35.8</b>		<b>8.7</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.153</b>		<b>18.1</b>		<b>.8</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.105</b>		<b>24.</b>		<b>8.4</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.135</b>		<b>29.0</b>		<b>8.8</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.217</b>		<b>49.</b>		<b>9.1</b>				<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	06L		01E						CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
<b>SAMPLES(FLAGS)</b> 0301	6(1)	1(0)							<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.1</b>	<b>1.5</b>							<b>MINIMUM</b>
<b>HIGH</b>	<b>.5</b>	<b>1.5</b>							<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.267*</b>								<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.197*</b>								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.1</b>								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.200</b>								<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.5</b>								<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	04L	04L							CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b> 0301					7(0)	7(0)	1(0)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					<b>9.</b>	<b>254.</b>	<b>79.</b>	<b>130.</b>	<b>MINIMUM</b>
<b>HIGH</b>					<b>1060.</b>	<b>1286.</b>	<b>79.</b>	<b>130.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>					<b>254.4</b>	<b>591.</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>					<b>384.3</b>	<b>361.</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>19.</b>	<b>288.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					<b>79.</b>	<b>524.</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>437.</b>	<b>792.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0014 LAT. 55 D 45 M 10 S LONG. 120 D 13 M 30 S

UTM 10 674200E 6181800N

APR 30 1974 TO/A JUL 17 1975

DAWSON CREEK AT HWY 2 AT DOWNSTREAM  
END OF CULVERT BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS
SAMPLES(FLAGS)	6(0)					6(0)		ECHANTILLONS(IND.)
LOW	153.					7.5	42.	MINIMUM
HIGH	512.					7.8	151.	MAXIMUM
AVERAGE	341.						102.0	MOYENNE
STD.DEV.	158.						49.1	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	175.					7.6	53.5	25 <sup>e</sup>
MEDIAN 50TH	356.					7.7	108.7	50 <sup>e</sup> MEDIANE
75TH	494					7.7	148.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE								CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0301		1(0)	1(0)			7(0)		ECHANTILLONS(IND.)
LOW			16.8	5.			2.4		MINIMUM
HIGH			16.8	5.			23.7		MAXIMUM
AVERAGE							8.9		MOYENNE
STD.DEV.							7.2		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH							4.		25 <sup>e</sup>
MEDIAN 50TH							8.7		50 <sup>e</sup> MEDIANE
75TH							10.6		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07554L NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	
SAMPLES(FLAGS)	0301	5(2)	6(1)	6(2)	1(0)	1(0)		4(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	2.	.12		.01	MINIMUM
HIGH		.64	.109	.53	2.	.12		.05	MAXIMUM
AVERAGE		.164*	.025*	.130*				.02	MOYENNE
STD.DEV.		.268*	.041*	.198*				.02	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.02	.005	L.02				.01	25 <sup>e</sup>
MEDIAN 50TH		.05	.008	.060				.02	50 <sup>e</sup> MEDIANE
75TH		.09	.014	.09				.04	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

PEACE RIVER SUB-BASIN

STATION **00CB07FD0014** LAT. **55 D 45 M 10 S** LONG. **120 D 13 M 30 S**

UTM **10 674200E 6181800 N**  
APR 30, 1974 TO/À JUL 17, 1975

DAWSON CREEK AT HWY 2 AT DOWNSTREAM  
END OF CULVERT, BRITISH COLUMBIA

		15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
	SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>5(0)</b>		<b>6(0)</b>		<b>4(0)</b>				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.091</b>		<b>17.</b>		<b>4.1</b>				<b>MINIMUM</b>
<b>HIGH</b>		<b>.38</b>		<b>29.</b>		<b>9.8</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.190</b>		<b>25.3</b>		<b>7.6</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.111</b>		<b>4.3</b>		<b>2.5</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.151</b>		<b>25.</b>		<b>5.8</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.157</b>		<b>26.5</b>		<b>8.3</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.17</b>		<b>28.</b>		<b>9.4</b>				<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>06L</b>		<b>01E</b>						<b>CODE DE SECOURS</b>

		26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>6(0)</b>	<b>1(0)</b>							<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.2</b>	<b>3.8</b>							<b>MINIMUM</b>
<b>HIGH</b>		<b>.7</b>	<b>3.8</b>							<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.450</b>								<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.207</b>								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.2</b>								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.500</b>								<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.6</b>								<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>04L</b>	<b>04L</b>							<b>CODE DE SECOURS</b>

		80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
	SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>					<b>7(0)</b>	<b>7(0)</b>	<b>1(0)</b>	<b>1(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>						<b>21.</b>	<b>264.</b>	<b>49.</b>	<b>G2400.</b>	<b>MINIMUM</b>
<b>HIGH</b>						<b>311.</b>	<b>466.</b>	<b>49.</b>	<b>G2400.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>						<b>120.9</b>	<b>402.</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>						<b>124.2</b>	<b>71.</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						<b>38.</b>	<b>360.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>						<b>70.</b>	<b>432.</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						<b>290.</b>	<b>450.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979  
PEACE RIVER SUB BASIN

STATION 00CB07FD0015 LAT 55 D 44 M 55 S LONG 120 D 12 M 40 S

UTM 10 675000E 6181400 N  
APR 30 1974 TO/A JUL 17 1975

DAWSON CREEK 150 YDS UPSTREAM  
OF DISCHARGE AE 4156 LAWRENCE

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	7(0)		1(0)			6(0)	6(0)		ECHANTILLONS(IND.)
LOW		156.		66.			7.6	43.		MINIMUM
HIGH		532.		66.			8.	151.		MAXIMUM
AVERAGE		386.						101.4		MOYENNE
STD.DEV.		165.						46.4		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		179.					7.6	54.2		25 <sup>e</sup>
MEDIAN 50TH		459.					7.7	111.0		50 <sup>e</sup> MEDIANE
75TH		528.					7.9	138.		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301			1(0)	1(0)	1(0)	1(0)	7(0)		ECHANTILLONS(IND.)
LOW				18.2	5.	0.	52.	2.5		MINIMUM
HIGH				18.2	5.	0.	52.	14.4		MAXIMUM
AVERAGE								9.3		MOYENNE
STD.DEV.								4.7		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH								4.4		25 <sup>e</sup>
MEDIAN 50TH								9.5		50 <sup>e</sup> MEDIANE
75TH								14.3		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE					02E					CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301		5(1)	6(1)	6(1)	1(0)	1(0)		4(0)	ECHANTILLONS(IND.)
LOW			L.02	L.005	L.02	2.	.05		.01	MINIMUM
HIGH			1.44	.212	1.23	2.	.05		.04	MAXIMUM
AVERAGE			.396*	.044*	.300*				.02	MOYENNE
STD.DEV.			.598*	.083*	.469*				.02	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.05	.007	.04				.01	25 <sup>e</sup>
MEDIAN 50TH			.12	.009	.090				.02	50 <sup>e</sup> MEDIANE
75TH			.35	.024	.33				.03	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0015** LAT. **55 D 44 M 55 S** LONG. **120 D 12 M 40 S**UTM **10 675000E 6181400 N**

APR 30, 1974 TO/À JUL 17, 1975

DAWSON CREEK 150 YDS UPSTREAM  
OF DISCHARGE AE 4156, LAWRENCE

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)		6(0)		5(0)				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.097		20.		7.4				<b>MINIMUM</b>
<b>HIGH</b>	.435		41.		11.				<b>MAXIMUM</b>
<b>AVERAGE</b>	.196		29.3		9.0				<b>MOYENNE</b>
<b>STD.DEV.</b>	.135		6.9		1.5				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.141		27.		7.8				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.154		28.0		8.8				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.155		32.		9.8				<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	06L		01E						CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
<b>SAMPLES(FLAGS)</b> 0301	6(0)	1(0)							<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.1	1.7							<b>MINIMUM</b>
<b>HIGH</b>	.8	1.7							<b>MAXIMUM</b>
<b>AVERAGE</b>	.400								<b>MOYENNE</b>
<b>STD.DEV.</b>	.261								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.2								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.350								<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.6								<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	04L	04L							CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b> 0301					7(0)	7(0)	1(0)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					15.	332.	2.	350.	<b>MINIMUM</b>
<b>HIGH</b>					441.	794.	2.	350.	<b>MAXIMUM</b>
<b>AVERAGE</b>					183.0	476.			<b>MOYENNE</b>
<b>STD.DEV.</b>					184.7	155.			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					22.	376.			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					70.	452.			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					356.	524.			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0016 LAT 55 D 44 M 50 S LONG 120 D 12 M 35 S

UTM 10 675200E 6181200 N  
APR 30, 1974 TO/A JUL 17 1975DAWSON CREEK 20 FT DOWNSTREAM  
OF DISCHARGE AE 4156 LAWRENCE

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	6(0)		1(0)			5(0)	5(0)		ECHANTILLONS(IND.)
LOW		172.		68.1			7.4	47.		MINIMUM
HIGH		522.		68.1			8.1	161.		MAXIMUM
AVERAGE		424.						116.5		MOYENNE
STD.DEV.		140.						46.7		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		350.					7.6	91.5		25 <sup>e</sup>
MEDIAN 50TH		490.					7.9	138.		50 <sup>e</sup> MEDIANE
75TH		520.					8.	145.		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301			1(0)	1(0)	1(0)	1(0)	6(0)		ECHANTILLONS(IND.)
LOW				18.7	5.2	0.	57.	5.9		MINIMUM
HIGH				18.7	5.2	0.	57.	15.2		MAXIMUM
AVERAGE								8.4		MOYENNE
STD.DEV.								3.5		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH								6.3		25 <sup>e</sup>
MEDIAN 50TH								7.0		50 <sup>e</sup> MEDIANE
75TH								9.2		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE					02E					CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301		4(0)	5(0)	5(2)	1(0)	1(0)		4(0)	ECHANTILLONS(IND.)
LOW			.02	.007	L.02	2.	.64		.01	MINIMUM
HIGH			1.92	.224	1.7	2.	.64		.12	MAXIMUM
AVERAGE			.538	.052	.400*				.06	MOYENNE
STD.DEV.			.925	.096	.730*				.04	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.020	.007	L.02				.03	25 <sup>e</sup>
MEDIAN 50TH			.105	.008	.08				.06	50 <sup>e</sup> MEDIANE
75TH			1.055	.012	.18				.10	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						01L				CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0016** LAT. **55 D 44 M 50 S** LONG. **120 D 12 M 35 S**UTM **10 675200E 6181200 N**

APR 30, 1974 TO/À JUL 17, 1975

DAWSON CREEK 20 FT DOWNSTREAM  
OF DISCHARGE AE 4156, LAWRENCE

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)		5(0)		5(0)				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.1		20.		7.6				<b>MINIMUM</b>
<b>HIGH</b>	.542		35.		11.8				<b>MAXIMUM</b>
<b>AVERAGE</b>	.260		27.4		9.6				<b>MOYENNE</b>
<b>STD.DEV.</b>	.176		6.4		1.7				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.134		23.		8.4				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.221		26.		10.				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.303		33.		10.4				<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	06L		01E						CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)	1(0)							<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.1	1.8							<b>MINIMUM</b>
<b>HIGH</b>	.4	1.8							<b>MAXIMUM</b>
<b>AVERAGE</b>	.240								<b>MOYENNE</b>
<b>STD.DEV.</b>	.134								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.1								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.3								<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.3								<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	04L	04L							CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b> 0301					6(0)	6(0)	2(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					14.	332.	49.	920.	<b>MINIMUM</b>
<b>HIGH</b>					695.	1146.	3500.	3500.	<b>MAXIMUM</b>
<b>AVERAGE</b>					218.2	549.	1775.	2210.	<b>MOYENNE</b>
<b>STD.DEV.</b>					274.8	304.	2440.	1824.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					28.	386.			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					82.5	431.	1775.	2210.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					407.	568.			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0017 LAT 55 D 44 M 45 S LONG 120 D 12 M 25 S

UTM 10 675400E 6181200N  
APR 30 1974 TO/A JUL 17 1975DAWSON CREEK 150 FT DOWNSTREAM OF  
DISCHARGE AE 4156 LAWRENCE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS) 0301	6(0)		1(0)			5(0)	4(0)		ECHANTILLONS(IND.)
LOW	163.		68.1			7.6	44.		MINIMUM
HIGH	1060.		68.1			8.	302.		MAXIMUM
AVERAGE	497.						139.6		MOYENNE
STD.DEV.	327.						119.3		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	184.					7.7	50.1		25 <sup>e</sup>
MEDIAN 50TH	497.					7.8	106.1		50 <sup>e</sup> MEDIANE
75TH	580.					7.8	229.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			03E						CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS) 0301			1(0)	1(0)	1(0)	1(0)	6(0)		ECHANTILLONS(IND.)
LOW			18.7	5.2	0.	54.	2.7		MINIMUM
HIGH			18.7	5.2	0.	54.	82.4		MAXIMUM
AVERAGE							21.3		MOYENNE
STD.DEV.							30.8		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH							5.1		25 <sup>e</sup>
MEDIAN 50TH							7.3		50 <sup>e</sup> MEDIANE
75TH							23.2		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS) 0301		4(1)	5(0)	5(1)	1(0)			3(0)	ECHANTILLONS(IND.)
LOW		L.02	.006	L.02	2.			.05	MINIMUM
HIGH		1.55	.192	1.36	2.			2.1	MAXIMUM
AVERAGE		.458*	.081	.338*				.84	MOYENNE
STD.DEV.		.734*	.100	.576*				1.10	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.030*	.008	.03					25 <sup>e</sup>
MEDIAN 50TH		.130	.01	.08				.37	50 <sup>e</sup> MEDIANE
75TH		.885	.19	.2					75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					01L				CODE DE SECOURS

MACKENZIE RIVER BASIN 1960-1979  
PEACE RIVER SUB-BASIN

STATION **00CB07FD0017** LAT. **55 D 44 M 45 S** LONG. **120 D 12 M 25 S**

UTM **10 675400 E 6181200 N**  
APR 30, 1974 TO/A JUL 17, 1975

DAWSON CREEK 150 FT DOWNSTREAM OF  
DISCHARGE AE 4156, LAWRENCE

		15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
	SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b>	0301	4(0)		6(0)		4(0)				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		.115		25.		7.6				<b>MINIMUM</b>
<b>HIGH</b>		2.52		41.		10.2				<b>MAXIMUM</b>
<b>AVERAGE</b>		.936		31.5		9.0				<b>MOYENNE</b>
<b>STD.DEV.</b>		1.078		6.3		1.1				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.295		27.		8.1				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.555		29.5		9.1				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		1.577		37.		9.9				<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		06L		01E						<b>CODE DE SECOURS</b>

		26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
<b>SAMPLES(FLAGS)</b>	0301	5(0)	1(0)							<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		.1	1.7							<b>MINIMUM</b>
<b>HIGH</b>		.9	1.7							<b>MAXIMUM</b>
<b>AVERAGE</b>		.480								<b>MOYENNE</b>
<b>STD.DEV.</b>		.327								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.2								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.6								<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.6								<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		04L	04L							<b>CODE DE SECOURS</b>

		80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
	SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b>	0301					6(0)	6(0)	1(0)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>						24.	380.	79.	540.	<b>MINIMUM</b>
<b>HIGH</b>						921.	1334.	79.	540.	<b>MAXIMUM</b>
<b>AVERAGE</b>						317.0	657.			<b>MOYENNE</b>
<b>STD.DEV.</b>						347.2	341.			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						29.	496.			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>						252.5	575.			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						423.	582.			<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

LAT 55 D 44 M 40 S LONG 120 D 12 M 20 S

ATM 10 675400 6181000  
APR 30 1974 TO/A MAY 06 1975DAWSON CREEK 100 YDS DOWNSTREAM OF  
DAWSON CREEK REFUSE SITE

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	6(0)		1(0)			5(0)	5(0)		ECHANTILLONS(IND.)
LOW		173.		71.6			7.8	47.5		MINIMUM
HIGH		982.		71.6			8.2	285.		MAXIMUM
AVERAGE		491.						131.3		MOYENNE
STD.DEV.		305.						97.1		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		220.					7.8	65.2		25 <sup>e</sup>
MEDIAN 50TH		469.					7.8	93.		50 <sup>e</sup> MEDIANE
75TH		631.					8.1	166.		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301			1(0)	1(0)	1(0)	1(0)	6(0)		ECHANTILLONS(IND.)
LOW				19.6	5.5	0.	58.	3.3		MINIMUM
HIGH				19.6	5.5	0.	58.	44.1		MAXIMUM
AVERAGE								17.3		MOYENNE
STD.DEV.								16.3		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH								4.2		25 <sup>e</sup>
MEDIAN 50TH								12.4		50 <sup>e</sup> MEDIANE
75TH								27.5		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE					02E					CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301		4(0)	5(0)	5(0)	1(0)	1(0)		4(0)	ECHANTILLONS(IND.)
LOW			.05	.007	.04	2.	.64		.04	MINIMUM
HIGH			1.45	.144	1.31	2.	.64		4.44	MAXIMUM
AVERAGE			.625	.056	.456				1.59	MOYENNE
STD.DEV.			.670	.062	.573				2.07	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.080	.009	.05				.05	25 <sup>e</sup>
MEDIAN 50TH			.500	.021	.09				.94	50 <sup>e</sup> MEDIANE
75TH			1.170	.099	.79				3.13	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						01L				CODE DE SECOURS



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0018** LAT. **55 D 44 M 40 S** LONG. **120 D 12 M 20 S**UTM **10 675400E 6181000 N**  
APR 30, 1974 TO/A MAY 06, 1975DAWSON CREEK 100 YDS DOWNSTREAM OF  
DAWSON CREEK REFUSE SITE

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)		5(0)		4(0)				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.191</b>		<b>28.</b>		<b>7.6</b>				<b>MINIMUM</b>
<b>HIGH</b>	<b>4.7</b>		<b>33.</b>		<b>10.5</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.913</b>		<b>30.4</b>		<b>9.5</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.774</b>		<b>2.1</b>		<b>1.3</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.585</b>		<b>29.</b>		<b>8.7</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.88</b>		<b>30.</b>		<b>10.0</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>2.21</b>		<b>32.</b>		<b>10.3</b>				<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	06L		01E						CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)	1(0)							<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.1</b>	<b>2.9</b>							<b>MINIMUM</b>
<b>HIGH</b>	<b>.9</b>	<b>2.9</b>							<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.420</b>								<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.327</b>								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.2</b>								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.3</b>								<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.6</b>								<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	04L	04L							CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b> 0301					6(0)	6(0)	2(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					<b>16.</b>	<b>316.</b>	<b>49.</b>	<b>130.</b>	<b>MINIMUM</b>
<b>HIGH</b>					<b>605.</b>	<b>778.</b>	<b>2800.</b>	<b>3500.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>					<b>214.5</b>	<b>562.</b>	<b>1425.</b>	<b>1815.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>					<b>257.7</b>	<b>159.</b>	<b>1945.</b>	<b>2383.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>50.</b>	<b>480.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					<b>68.5</b>	<b>572.</b>	<b>1425.</b>	<b>1815.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>479.</b>	<b>654.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FD0019 LAT. 55 D 44 M 30 S LONG. 120 D 7 M 5 S

UTM 10 681000 E 6180800 N  
JUN 05 1974 TO/A SEP 26 1974POUCE COUPE RIVER ONE HALF MILE  
UPSTREAM FROM DAWSON CREEK

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	4(0)					3(0)	3(0)		ECHANTILLONS(IND.)
LOW		212.					7.9	82.5		MINIMUM
HIGH		519.					8.3	167.		MAXIMUM
AVERAGE		375.						136.8		MOYENNE
STD.DEV.		135.						47.1		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		268.								25 <sup>e</sup>
MEDIAN 50TH		384.					8.3	161.		50 <sup>e</sup> MEDIANE
75TH		482.								75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301							4(0)		ECHANTILLONS(IND.)
LOW								1.7		MINIMUM
HIGH								2.2		MAXIMUM
AVERAGE								1.9		MOYENNE
STD.DEV.								.2		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH								1.7		25 <sup>e</sup>
MEDIAN 50TH								1.9		50 <sup>e</sup> MEDIANE
75TH								2.2		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301		3(2)	3(3)	3(2)		1(0)		3(0)	ECHANTILLONS(IND.)
LOW			L.02	L.005	L.02		.06		.00	MINIMUM
HIGH			.02	L.005	.02		.06		.02	MAXIMUM
AVERAGE			.020*		.020*				.01	MOYENNE
STD.DEV.			.000*		.000*				.01	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH			L.02	L.005	L.02				.01	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0019** LAT. **55 D 44 M 30 S** LONG. **120 D 7 M 5 S**UTM **10 681000E 6180800 N**  
JUN 05, 1974 TO/À MAY 06, 1975POUCE COUPE RIVER ONE HALF MILE  
UPSTREAM FROM DAWSON CREEK

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED CR	25104L MANGANESE DISSOLVED MN	25004L MANGANESE TOTAL MN	
SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0301	4(0)		3(0)		4(0)				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.059		22.		10.				<b>MINIMUM</b>
<b>HIGH</b>	.105		31.		12.9				<b>MAXIMUM</b>
<b>AVERAGE</b>	.074		26.0		11.2				<b>MOYENNE</b>
<b>STD.DEV.</b>	.021		4.6		1.2				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.063				10.4				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.067		25.		10.9				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.086				11.9				<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	06L								CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0301	4(1)	1(0)							<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.1	1.7							<b>MINIMUM</b>
<b>HIGH</b>	.8	1.7							<b>MAXIMUM</b>
<b>AVERAGE</b>	.425*								<b>MOYENNE</b>
<b>STD.DEV.</b>	.299*								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.200*								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.400								<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.650								<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	04L	04L							CODE DE SECOURS

	80011L MERCURY TOTAL HG	06551L TANNIN AND LIGNIN LIG.SULPH. MG/L	06716L CHLORO- PHYLL A MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	10402L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	36010E COLIFORMS FECAL MF NO/ML	36000E COLIFORMS TOTAL MPN NO/ML	
SUBM ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	NO/ML	NO/ML	
<b>SAMPLES(FLAGS)</b> 0301					4(0)	4(0)	2(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					12.	260.	33.	170.	<b>MINIMUM</b>
<b>HIGH</b>					84.	388.	50.	350.	<b>MAXIMUM</b>
<b>AVERAGE</b>					45.3	354.	42.	260.	<b>MOYENNE</b>
<b>STD.DEV.</b>					31.8	62.	12.	127.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					20.0	321.			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					42.5	383.	42.	260.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					70.5	386.			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0020 LAT 55° 45' N 10° S LONG 120° 0' W 6 M 20 S

UTM 10 681600E 6182200N  
JUN 05 1974 TO/A SEP 26 1974POUCE COUPE RIVER DOWNSTREAM OF  
CONFLUENCE WITH DAWSON CREEK

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
SAMPLES(FLAGS)	0301	4(0)					3(0)	3(0)		ECHANTILLONS(IND.)
LOW		216.					7.9	83.		MINIMUM
HIGH		519.					8.3	167.		MAXIMUM
AVERAGE		382.						137.0		MOYENNE
STD.DEV.		132.						46.9		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		281.								25 <sup>e</sup>
MEDIAN 50TH		397.					8.3	161.		50 <sup>e</sup> MEDIANE
75TH		484.								75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0301							4(0)		ECHANTILLONS(IND.)
LOW								1.5		MINIMUM
HIGH								2.7		MAXIMUM
AVERAGE								2.1		MOYENNE
STD.DEV.								.5		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH								1.8		25 <sup>e</sup>
MEDIAN 50TH								2.0		50 <sup>e</sup> MEDIANE
75TH								2.4		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0301		3(1)	3(3)	3(1)		1(0)		3(0)	ECHANTILLONS(IND.)
LOW			L.02	L.005	L.02		.04		.00	MINIMUM
HIGH			.02	L.005	.02		.04		.02	MAXIMUM
AVERAGE			.020*		.020*				.01	MOYENNE
STD.DEV.			.000*		.000*				.01	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH			.02	L.005	.02				.01	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0020** LAT. **55 D 45 M 10 S** LONG. **120 D 6 M 20 S**UTM **10 681600 E 6182200 N**  
JUN 05, 1974 TO/À SEP 26, 1974POUCE COUPE RIVER DOWNSTREAM OF  
CONFLUENCE WITH DAWSON CREEK

		15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED CR	25104L MANGANESE DISSOLVED MN	25004L MANGANESE TOTAL MN	
	SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>4(0)</b>		<b>3(0)</b>		<b>4(0)</b>				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.058</b>		<b>22.</b>		<b>10.</b>				<b>MINIMUM</b>
<b>HIGH</b>		<b>.1</b>		<b>28.</b>		<b>12.</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.081</b>		<b>24.3</b>		<b>10.8</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.021</b>		<b>3.2</b>		<b>1.0</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.064</b>				<b>10.0</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.084</b>		<b>23.</b>		<b>10.6</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.099</b>				<b>11.6</b>				<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>06L</b>		<b>01E</b>						<b>CODE DE SECOURS</b>

		26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>3(1)</b>	<b>1(0)</b>							<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.1</b>	<b>1.9</b>							<b>MINIMUM</b>
<b>HIGH</b>		<b>.4</b>	<b>1.9</b>							<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.300*</b>								<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.173*</b>								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.4</b>								<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>04L</b>	<b>04L</b>							<b>CODE DE SECOURS</b>

		80011L MERCURY TOTAL HG	06551L TANNIN AND LIGNIN LIG.SULPH. MG/L	06716L CHLORO- PHYLL A MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	10402L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	36010E COLIFORMS FECAL NO/ML	36000E COLIFORMS TOTAL MPN NO/ML	
	SUBM ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	NO/ML	NO/ML	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>					<b>4(0)</b>	<b>4(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>						<b>14.</b>	<b>258.</b>	<b>13.</b>	<b>79.</b>	<b>MINIMUM</b>
<b>HIGH</b>						<b>79.</b>	<b>388.</b>	<b>1100.</b>	<b>1100.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>						<b>35.0</b>	<b>321.</b>	<b>398.</b>	<b>430.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>						<b>30.1</b>	<b>56.</b>	<b>609.</b>	<b>581.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						<b>15.5</b>	<b>277.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>						<b>23.5</b>	<b>319.</b>	<b>80.</b>	<b>110.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						<b>54.5</b>	<b>365.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FD0021 LAT 55 D 42 M 50 S LONG 120 D 6 M 45 S

UTM 10 681400 6177800  
APR 30 1974 TO/A JUL 17 1975POUCE COUPE RIVER AT SPIRIT RIVER  
ROAD BRIDGE BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS
	SUBM ID	USIE/CM							
SAMPLES(FLAGS)	0301	6(0)		1(0)			5(0)	4(0)	ECHANTILLONS(IND.)
LOW		136.		61.6			7.9	83.5	MINIMUM
HIGH		531.		61.6			8.4	166.	MAXIMUM
AVERAGE		345.						135.9	MOYENNE
STD.DEV.		150.						37.6	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		220.					7.9	108.8	25 <sup>e</sup>
MEDIAN 50TH		352.					8.1	147.0	50 <sup>e</sup> MEDIANE
75TH		478.					8.1	163.0	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				03E					CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L
	SUBM ID								
SAMPLES(FLAGS)	0301			1(0)	1(0)	1(0)	1(0)	6(0)	ECHANTILLONS(IND.)
LOW				17.9	4.1	3.	196.	1.5	MINIMUM
HIGH				17.9	4.1	3.	196.	3.7	MAXIMUM
AVERAGE								2.7	MOYENNE
STD.DEV.								.9	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH								1.7	25 <sup>e</sup>
MEDIAN 50TH								2.8	50 <sup>e</sup> MEDIANE
75TH								3.4	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02E				CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRATE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L
	SUBM ID								
SAMPLES(FLAGS)	0301		4(2)	5(1)	5(2)	1(0)	1(0)		4(0)
LOW			.02	.005	.02	3.	.07		.01
HIGH			.2	.007	.19	3.	.07		.09
AVERAGE			.087*	.006*	.072*				.04
STD.DEV.			.086*	.001*	.074*				.04
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			.020	.005	.02				.01
MEDIAN 50TH			.065*	.006	.03				.02
75TH			.155	.007	.1				.06
90TH									.06
SECONDARY CODE						01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0021** LAT. **55 D 42 M 50 S** LONG. **120 D 6 M 45 S**UTM **10 681400E 6177800 N**  
APR 30, 1974 TO/A JUL 17, 1975POUCE COUPE RIVER AT SPIRIT RIVER  
ROAD BRIDGE, BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)		5(0)		5(0)				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.086</b>		<b>23.</b>		<b>8.9</b>				<b>MINIMUM</b>
<b>HIGH</b>	<b>1.23</b>		<b>37.</b>		<b>14.</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.337</b>		<b>29.4</b>		<b>11.3</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.500</b>		<b>5.7</b>		<b>1.9</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.091</b>		<b>25.</b>		<b>10.2</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.109</b>		<b>29.</b>		<b>11.4</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.168</b>		<b>33.</b>		<b>12.2</b>				<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	06L		01E						CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(1)	1(0)							<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.1</b>	<b>1.6</b>							<b>MINIMUM</b>
<b>HIGH</b>	<b>.6</b>	<b>1.6</b>							<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.340*</b>								<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.195*</b>								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.2</b>								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.4</b>								<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.4</b>								<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	04L	04L							CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b> 0301					5(0)	5(0)	1(0)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					<b>23.</b>	<b>264.</b>	<b>2.</b>	<b>23.</b>	<b>MINIMUM</b>
<b>HIGH</b>					<b>113.</b>	<b>418.</b>	<b>2.</b>	<b>23.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>					<b>55.8</b>	<b>351.</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>					<b>40.1</b>	<b>67.</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>29.</b>	<b>298.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					<b>31.</b>	<b>376.</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>83.</b>	<b>400.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 00CB07FD0022 LAT. 55 D 45M 0 S LONG. 120 D 15M 0 S

UTM 10 672600E 6181400 N  
APR 24 1978 TO/A AUG 23 1978DAWSON CREEK 100 YDS UPSTREAM OF  
DAWSON CREEK REFUSE SITE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD) PH UNITS
SUBM ID	USIE/CM							
SAMPLES(FLAGS) 0301			5(0)			5(0)	5(0)	ECHANTILLONS(IND.)
LOW			102.			7.8	76.4	MINIMUM
HIGH			354.			8.3	318.	MAXIMUM
AVERAGE			228.8				177.2	MOYENNE
STD.DEV.			115.5				118.7	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH			131.			7.9	83.5	25 <sup>e</sup>
MEDIAN 50TH			219.			7.9	114.	50 <sup>e</sup> MEDIANE
75TH			338.			8.1	294.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE			03E					CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L
SUBM ID								
SAMPLES(FLAGS) 0301			5(0)	5(0)			5(0)	ECHANTILLONS(IND.)
LOW			26.8	8.6			4.3	MINIMUM
HIGH			94.	29.8			45.	MAXIMUM
AVERAGE			60.62	18.8			24.2	MOYENNE
STD.DEV.			29.89	10.1			19.2	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH			35.	10.5			5.6	25 <sup>e</sup>
MEDIAN 50TH			61.	16.2			24.9	50 <sup>e</sup> MEDIANE
75TH			86.3	29.1			41.4	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE				02E				CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L
SUBM ID								
SAMPLES(FLAGS) 0301	5(0)	5(0)					5(0)	ECHANTILLONS(IND.)
LOW	1.	.07					1.1	.03 MINIMUM
HIGH	14.	5.1					14.07	3.03 MAXIMUM
AVERAGE	6.4	1.288					7.72	.93 MOYENNE
STD.DEV.	5.4	2.154					5.16	1.32 ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	3	1					4.31	.06 25 <sup>e</sup>
MEDIAN 50TH	4.	.31					8.1	.10 50 <sup>e</sup> MEDIANE
75TH	10	86					11.	1.44 75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0022 LAT. 55 D 45 M 0 S LONG. 120 D 15 M 0 S

UTM 10 672600E 6181400 N  
APR 24, 1978 TO/À AUG 23, 1978DAWSON CREEK 100 YDS UPSTREAM OF  
DAWSON CREEK REFUSE SITE

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SIO2 MG/L	MG/L	MG/L	MG/L	CR MG/L	MN MG/L	MN MG/L	
SAMPLES(FLAGS) 0301	5(0)		4(0)						ECHANTILLONS(IND.)
LOW	.215		21.						MINIMUM
HIGH	3.96		28.						MAXIMUM
AVERAGE	1.368		23.8						MOYENNE
STD.DEV.	1.598		3.4						ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.28		21.0						25 <sup>e</sup>
MEDIAN 50TH	.513		23.0						50 <sup>e</sup> MEDIANE
75TH	1.87		26.5						75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	06L								CODE DE SECOURS

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
SAMPLES(FLAGS) 0301		5(0)				5(0)			ECHANTILLONS(IND.)
LOW		3.1				.013			MINIMUM
HIGH		28.				.11			MAXIMUM
AVERAGE		11.820				.053			MOYENNE
STD.DEV.		9.887				.038			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		6.				.03			25 <sup>e</sup>
MEDIAN 50TH		8.				.04			50 <sup>e</sup> MEDIANE
75TH		14.				.07			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		04L				05L			CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
SAMPLES(FLAGS) 0301					5(0)	4(0)			ECHANTILLONS(IND.)
LOW					263.	380.			MINIMUM
HIGH					918.	1370.			MAXIMUM
AVERAGE					579.8	749.			MOYENNE
STD.DEV.					312.5	438.			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					295.	450.			25 <sup>e</sup>
MEDIAN 50TH					538.	623.			50 <sup>e</sup> MEDIANE
75TH					885.	1048.			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0023 LAT. 55 D 45 M 0 S LONG. 120 D 15 M 0 S

UTM 10 672600E 6181400 N  
APR 24 1978 TO/A AUG 23 1978DAWSON CREEK AT DAWSON CREEK  
REFUSE SITE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS
SAMPLES(FLAGS) 0301	5(0)		5(0)	1(0)		5(0)	5(0)	ECHANTILLONS(IND.)
LOW	280.		107.	120.		7.8	82.8	MINIMUM
HIGH	972.		357.	120.		8.2	321.	MAXIMUM
AVERAGE	600.		235.8				177.7	MOYENNE
STD.DEV.	322.		116.2				114.0	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	295.		131.			7.9	84.7	25 <sup>e</sup>
MEDIAN 50TH	571.		240.			8.0	120.	50 <sup>e</sup> MEDIANE
75TH	882.		344.			8.	280.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE			03E					CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L
SAMPLES(FLAGS) 0301			5(0)	5(0)			5(0)	ECHANTILLONS(IND.)
LOW			28.3	8.9			4.3	MINIMUM
HIGH			90.	32.8			49.	MAXIMUM
AVERAGE			61.94	19.7			25.7	MOYENNE
STD.DEV.			29.12	10.7			20.3	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH			35.1	10.6			6.4	25 <sup>e</sup>
MEDIAN 50TH			67.5	17.3			27.	50 <sup>e</sup> MEDIANE
75TH			88.8	28.9			42.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE				02E				CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07205L NITROGEN DISSOLVED	07301E NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07554L NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED
SUBM ID	KJELDAHL N MG/L	NO3 & NO2 N MG/L	NITRITE N MG/L	NITRATE N MG/L	ORGANIC N MG/L	AMMONIA N MG/L	N MG/L	ORTHO PO4 MG/L
SAMPLES(FLAGS) 0301	5(0)	5(0)					5(0)	5(0) ECHANTILLONS(IND.)
LOW	2.	.09					2.09	.03 MINIMUM
HIGH	10.	5.3					12.	1.84 MAXIMUM
AVERAGE	5.8	1.622					7.42	.74 MOYENNE
STD.DEV.	3.9	2.191					4.15	.89 ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	3.	.3					4.3	.06 25 <sup>e</sup>
MEDIAN 50TH	4.	.42					8.3	.21 50 <sup>e</sup> MEDIANE
75TH	10.	2.					10.42	1.58 75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE								CODE DE SECOURS



MACKENZIE RIVER BASIN 1960-1979  
PEACE RIVER SUB-BASIN

STATION **00CB07FD0023** LAT. **55 D 45 M 0 S** LONG. **120 D 15 M 0 S**

UTM **10 672600 E 6181400 N**  
APR 24, 1978 TO/A AUG 23, 1978

DAWSON CREEK AT DAWSON CREEK  
REFUSE SITE, BRITISH COLUMBIA

	26102L IRON DISSOLVED FE MG/L	26002L IRON TOTAL FE MG/L	28001L NICKEL TOTAL NI MG/L	29105L COPPER DISSOLVED CU MG/L	30104L ZINC DISSOLVED ZN MG/L	30004L ZINC TOTAL ZN MG/L	82103L LEAD DISSOLVED PB MG/L	80111L MERCURY DISSOLVED HG UG/L	
SAMPLES(FLAGS) 0301		5(0)				5(0)			ECHANTILLONS(IND.)
LOW		4.4				.011			MINIMUM
HIGH		25.				.1			MAXIMUM
AVERAGE		13.180				.054			MOYENNE
STD.DEV.		8.776				.039			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		4.5				.03			25 <sup>e</sup>
MEDIAN 50TH		16.				.04			50 <sup>e</sup> MEDIANE
75TH		16.				.09			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		04L				05L			CODE DE SECOURS

	80011L MERCURY TOTAL HG UG/L	06551L TANNIN AND LIGNIN LIG.SULPH. MG/L	06716L CHLORO- PHYLL A MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	10402L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	36010E COLIFORMS FECAL MF NO/ML	36000E COLIFORMS TOTAL MPN NO/ML	
SAMPLES(FLAGS) 0301					5(0)	4(0)			ECHANTILLONS(IND.)
LOW					280.	326.			MINIMUM
HIGH					972.	914.			MAXIMUM
AVERAGE					600.0	625.			MOYENNE
STD.DEV.					321.8	254.			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					295.	426.			25 <sup>e</sup>
MEDIAN 50TH					571.	629.			50 <sup>e</sup> MEDIANE
75TH					882.	823.			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 00CB07FD0024 LAT. 55 D 45 M 0 S LONG. 120 D 10 M 0 S

UTM 10 677800E 6181600 N  
APR 24, 1978 TO/A AUG 23 1978DAWSON CREEK 25 MILES DOWNSTREAM FROM  
SEWAGE LAGOON DISCHARGE INTO DAWSON CR

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CA CO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CA CO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	5(0)	5(0)	1(0)		5(0)	5(0)		ECHANTILLONS(IND.)
LOW		280.	106.	120.		7.9	82.3		MINIMUM
HIGH		987.	363.	120.		8.2	321.		MAXIMUM
AVERAGE		605.	236.0				173.9		MOYENNE
STD.DEV.		325.	118.2				109.4		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		297.	130.			7.9	85.		25 <sup>e</sup>
MEDIAN 50TH		580.	237.			8.	122.		50 <sup>e</sup> MEDIANE
75TH		880.	344.			8.	259.		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			03E						CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301		5(0)	5(0)			5(0)		ECHANTILLONS(IND.)
LOW			27.7	9.			4.4		MINIMUM
HIGH			91.3	32.8			49.		MAXIMUM
AVERAGE			61.96	19.8			26.4		MOYENNE
STD.DEV.			29.89	10.7			20.4		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			34.8	10.5			6.7		25 <sup>e</sup>
MEDIAN 50TH			66.	17.5			28.8		50 <sup>e</sup> MEDIANE
75TH			90.	29.			43.2		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHOPHOSPHATE PO4 MG/L	
SAMPLES(FLAGS)	0301	5(0)	5(0)				5(0)	5(0)	ECHANTILLONS(IND.)
LOW		1.	.1				1.1	.03	MINIMUM
HIGH		10.	5.3				12.	1.56	MAXIMUM
AVERAGE		5.2	1.670				6.86	.66	MOYENNE
STD.DEV.		4.1	2.170				4.29	.77	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		2.	.31				4.31	.05	25 <sup>e</sup>
MEDIAN 50TH		4.	.58				7.3	.23	50 <sup>e</sup> MEDIANE
75TH		9.	2.06				9.58	1.43	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **00CB07FD0024** LAT. **55 D 45 M 0 S** LONG. **120 D 10 M 0 S**UTM **10 677800E 6181600 N**

APR 24, 1978 TO/A AUG 23, 1978

DAWSON CREEK 25 MILES DOWNSTREAM FROM  
SEWAGE LAGOON DISCHARGE INTO DAWSON CR

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SIO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(0)		4(0)						<b>ECHANTILLONS(IND.)</b>
LOW	.179		17.						<b>MINIMUM</b>
HIGH	1.97		26.						<b>MAXIMUM</b>
AVERAGE	1.000		22.5						<b>MOYENNE</b>
STD.DEV.	.868		4.4						<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH	.268		19.0						<b>25<sup>e</sup></b>
MEDIAN 50TH	.703		23.5						<b>50<sup>e</sup> MEDIANE</b>
75TH	1.88		26.0						<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE	06L								<b>CODE DE SECOURS</b>

	26102L IRON DISSOLVED	26002L IRON TOTAL	28001L NICKEL TOTAL	29105L COPPER DISSOLVED	30104L ZINC DISSOLVED	30004L ZINC TOTAL	82103L LEAD DISSOLVED	80111L MERCURY DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	PB MG/L	HG UG/L	
<b>SAMPLES(FLAGS)</b> 0301		5(0)				5(1)			<b>ECHANTILLONS(IND.)</b>
LOW		1.3				L.005			<b>MINIMUM</b>
HIGH		14.				.08			<b>MAXIMUM</b>
AVERAGE		6.600				.034*			<b>MOYENNE</b>
STD.DEV.		4.968				.034*			<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH		4.3				.006			<b>25<sup>e</sup></b>
MEDIAN 50TH		4.4				.017			<b>50<sup>e</sup> MEDIANE</b>
75TH		9.				.06			<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE		04L				05L			<b>CODE DE SECOURS</b>

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b> 0301					4(0)	4(0)			<b>ECHANTILLONS(IND.)</b>
LOW					48.	328.			<b>MINIMUM</b>
HIGH					203.	838.			<b>MAXIMUM</b>
AVERAGE					101.3	610.			<b>MOYENNE</b>
STD.DEV.					71.3	229.			<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH					52.0	428.			<b>25<sup>e</sup></b>
MEDIAN 50TH					77.0	637.			<b>50<sup>e</sup> MEDIANE</b>
75TH					150.5	792.			<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE									<b>CODE DE SECOURS</b>

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07GC0001 LAT. 54 D 41M 0 S LONG. 120 D 35M 0 S

UTM 10 655800E 6062000 N  
MAR 10 1977 TO/A AUG 18 1977WAPITI RIVER U/S FROM PROPOSED COAL  
DEVELOPMENT SITE BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
SAMPLES(FLAGS)	0301	4(0)	3(0)	4(0)	4(2)	4(0)	3(0)	3(0)		ECHANTILLONS(IND.)
LOW		223.	0.	117.	L5.	.7	8.	109.		MINIMUM
HIGH		320.	.2	160.	10.	6.8	8.3	123.		MAXIMUM
AVERAGE		263.	.1	134.5	7.*	2.9		116.0		MOYENNE
STD.DEV.		41.	.1	18.4	3.*	2.8		7.0		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		236.		122.0	L5.	.9				25 <sup>e</sup>
MEDIAN 50TH		254.	0.	130.5	7.*	2.1	8.2	116.		50 <sup>e</sup> MEDIANE
75TH		289.		147.0	10.	4.9				75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG SULPH MG/L	
SAMPLES(FLAGS)	0301	4(0)	4(0)							ECHANTILLONS(IND.)
LOW		35.1	7.1							MINIMUM
HIGH		48.3	9.5							MAXIMUM
AVERAGE		40.30	8.2							MOYENNE
STD.DEV.		5.70	1.0							ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		36.45	7.5							25 <sup>e</sup>
MEDIAN 50TH		38.90	8.1							50 <sup>e</sup> MEDIANE
75TH		44.15	8.9							75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			02E							CODE DE SECOURS

		07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
	SUBM ID	KJELDAHL N MG/L	NO3 & NO2 N MG/L	ORGANIC N MG/L	AMMONIA N MG/L	N MG/L	PO4 MG/L	P MG/L	C MG/L	
SAMPLES(FLAGS)	0301	3(0)	3(1)			2(1)		3(0)		ECHANTILLONS(IND.)
LOW		.01	L.02			L.02		.005		MINIMUM
HIGH		.06	.03			.07		.007		MAXIMUM
AVERAGE		.04	.027*			.04*		.006		MOYENNE
STD.DEV.		.03	.006*			.04*		.001		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		.04	.03			.04*		.005		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

PEACE RIVER SUB-BASIN

STATION **00CB07GC0001** LAT. **54 D 41 M 0 S** LONG. **120 D 35 M 0 S**

UTM **10 655800E 6062000 N**  
MAY 19, 1977 TO/A AUG 18, 1977

WAPITI RIVER U/S FROM PROPOSED COAL  
DEVELOPMENT SITE, BRITISH COLUMBIA

		08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
	SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b>	0301	3(0)	2(1)		2(2)	2(2)	2(0)		2(2)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>6.4</b>	<b>L.01</b>		<b>L.005</b>	<b>L.02</b>	<b>.1</b>		<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>10.8</b>	<b>.03</b>		<b>L.005</b>	<b>L.02</b>	<b>.1</b>		<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>8.7</b>	<b>.02*</b>				<b>.10</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>2.2</b>	<b>.01*</b>				<b>.00</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>8.9</b>	<b>.02*</b>		<b>L.005</b>	<b>L.02</b>	<b>.10</b>		<b>L.010</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE			02E			04E				CODE DE SECOURS

		29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	0301	2(1)		2(2)		2(2)	2(0)	2(2)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>		<b>L.005</b>		<b>L.005</b>	<b>.0009</b>	<b>L.0005</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.002</b>		<b>L.005</b>		<b>L.005</b>	<b>.0009</b>	<b>L.0005</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.001*</b>					<b>.0009</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.001*</b>					<b>.0000</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.001*</b>		<b>L.005</b>		<b>L.005</b>	<b>.0009</b>	<b>L.0005</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE		04L		03L			01E	03L		CODE DE SECOURS

		82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MF	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	SUBM ID	MG/L	MG/L	NO/ML	NO/ML	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0301	2(2)				4(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>				<b>138.</b>	<b>134.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.001</b>				<b>208.</b>	<b>188.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>						<b>164.</b>	<b>157.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>						<b>31.</b>	<b>23.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						<b>144.</b>	<b>141.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.001</b>				<b>155.</b>	<b>152.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						<b>184.</b>	<b>172.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>								<b>90<sup>e</sup></b>
SECONDARY CODE		04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79

PEACE RIVER SUB-BASIN

STATION: 00CB07GC0002 LAT: 54 D 44 M 0 S LONG: 120 D 0 M 0 S

UTM 11 306800 6069000  
MAR 10 1977 TO/A AUG 18 1977

WAPITI RIVER NEAR B.C.-ALBERTA BORDER  
BRITISH COLUMBIA.

		02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
SAMPLES(FLAGS)	0301	5(0)	3(0)	5(0)	5(2)	5(0)	4(0)	4(0)	1(0)	ECHANTILLONS(IND.)
LOW		204.	0.	108.	L5.	2.3	8.3	105.	1.2	MINIMUM
HIGH		329.	0.	165.	30.	36.	8.5	143.	1.2	MAXIMUM
AVERAGE		267.	.0	136.6	14.*	15.7		123.0		MOYENNE
STD.DEV.		51.	.0	23.2	11.*	14.4		15.9		ECART-TYPE
PERCENT:10TH										10 <sup>e</sup> PERCNT
25TH		243.		124.	L5.	5.	8.3	111.5		25 <sup>e</sup>
MEDIAN 50TH		250.	0.	131.	10.	10.	8.3	122.0		50 <sup>e</sup> MEDIANE
75TH		309.		155.	20.	25.	8.4	134.5		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG SULPH MG/L	
SAMPLES(FLAGS)	0301	5(0)	5(0)	1(0)	1(0)	2(0)	1(1)	2(2)	2(0)	ECHANTILLONS(IND.)
LOW		31.9	6.8	1.	151.	10.8	L.1	L.002	.3	MINIMUM
HIGH		49.2	10.2	1.	151.	15.	L.1	L.002	.4	MAXIMUM
AVERAGE		40.20	8.7			12.9			.4	MOYENNE
STD.DEV.		6.96	1.5			3.0			.1	ECART-TYPE
PERCENT:10TH										10 <sup>e</sup> PERCNT
25TH		36.6	7.9							25 <sup>e</sup>
MEDIAN 50TH		38.	8.7			12.9		L.002	.4	50 <sup>e</sup> MEDIANE
75TH		45.3	10.1							75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			02E							CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	C MG/L	
SAMPLES(FLAGS)	0301	4(0)	3(1)	1(0)	4(1)	4(0)	3(3)	5(0)	2(0)	ECHANTILLONS(IND.)
LOW		.09	L.02	.09	.006	.11	L.003	.006	6.	MINIMUM
HIGH		.14	.02	.09	L.02	.14	L.003	.046	6.	MAXIMUM
AVERAGE		.12	.020*		.013*	.13		.025	6.0	MOYENNE
STD.DEV.		.02	.000*		.008*	.02		.018	.0	ECART-TYPE
PERCENT:10TH										10 <sup>e</sup> PERCNT
25TH		.10			.006	.11		.01		25 <sup>e</sup>
MEDIAN 50TH		.12	.02		.012	.13	L.003	.022	6.0	50 <sup>e</sup> MEDIANE
75TH		.13			.019*	.14		.043		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07GC0002** LAT. **54 D 44 M 0 S** LONG. **120 D 0 M 0 S**UTM **11 306800E 6069000 N**  
MAR 10, 1977 TO/A AUG 18, 1977WAPITI RIVER NEAR B.C.-ALBERTA BORDER,  
BRITISH COLUMBIA.

	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b> 0301	4(0)	2(0)		2(2)	5(3)	5(0)	2(2)	5(5)	ECHANTILLONS(IND.)
LOW	9.6	.6		L.005	L.02	.3	L.01	L.01	MINIMUM
HIGH	12.2	1.3		L.005	.04	2.2	L.01	L.01	MAXIMUM
AVERAGE	10.8	.95			.03*	1.32			MOYENNE
STD.DEV.	1.1	.49			.01*	.78			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	9.9				L.02	.8		L.01	25 <sup>e</sup>
MEDIAN 50TH	10.6	.95		L.005	L.02	1.4	L.01	L.01	50 <sup>e</sup> MEDIANE
75TH	11.6				.03	1.9		L.01	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					04E			02E	CODE DE SECOURS

	29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(1)	2(1)	5(1)	2(2)	2(2)	3(1)	4(4)	2(2)	ECHANTILLONS(IND.)
LOW	L.001	L.001	L.005	L.005	L.005	L.0005	L.0005	L.05	MINIMUM
HIGH	.005	.001	.02	L.005	L.005	.0008	L.0005	L.05	MAXIMUM
AVERAGE	.003*	.001*	.014*			.0006*			MOYENNE
STD.DEV.	.001*	.000*	.007*			.0002*			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.002		.01				L.0005		25 <sup>e</sup>
MEDIAN 50TH	.003	.001*	.016	L.005	L.005	.0006	L.0005	L.05	50 <sup>e</sup> MEDIANE
75TH	.003		.02				L.0005		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	04L		03L 04L			01E	03L		CODE DE SECOURS

	82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MF	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	MG/L	MG/L	NO/ML	NO/ML	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(3)	2(2)	1(0)	1(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	L.001	L.001	33.	33.	174.	134.	MINIMUM
HIGH	.004	L.001	33.	33.	204.	198.	MAXIMUM
AVERAGE	.002*				190.	163.	MOYENNE
STD.DEV.	.001*				12.	24.	ECART-TYPE
PERCNT:10TH							10 <sup>e</sup> PERCNT
25TH	L.001				182.	154.	25 <sup>e</sup>
MEDIAN 50TH	L.001	L.001			190.	154.	50 <sup>e</sup> MEDIANE
75TH	.001				200.	174.	75 <sup>e</sup>
90TH							90 <sup>e</sup>
SECONDARY CODE	04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07GC0003 LAT. 54 D 15 M 0 S LONG. 120 D 15 M 0 S

UTM 10 679200E 6014600 N  
MAR 10 1977 TO A AUG 18 1977NARROWAY RIVER U/S FROM PROPOSED COAL  
DEVELOPMENT SITE BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	ALKALINITY PHENOL PHTHALEIN
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L
SAMPLES(FLAGS)	0301	5(0)	3(0)	5(0)	5(1)	5(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW		126.	0.	63.5	L5.	.3	8.	59.8	MINIMUM
HIGH		257.	.3	131.	50.	8.3	8.3	110.	MAXIMUM
AVERAGE		193.	.2	97.4	17.*	2.3		80.8	MOYENNE
STD.DEV.		63.	.2	33.2	20.*	3.4		24.9	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		132.		63.9	5.	.4	8.1	60.1	25 <sup>e</sup>
MEDIAN 50TH		198.	.2	99.5	5.	.5	8.2	76.7	50 <sup>e</sup> MEDIANE
75TH		254.		129.	20.	2.	8.3	101.5	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

		20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN
	SUBM ID	CA MG/L	MG	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG.SULPH MG/L
SAMPLES(FLAGS)	0301	5(0)	5(0)						ECHANTILLONS(IND.)
LOW		17.7	4.6						MINIMUM
HIGH		35.1	11.3						MAXIMUM
AVERAGE		26.20	7.8						MOYENNE
STD.DEV.		8.19	3.2						ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		18.	4.7						25 <sup>e</sup>
MEDIAN 50TH		27.	7.8						50 <sup>e</sup> MEDIANE
75TH		33.2	10.6						75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02E						CODE DE SECOURS

		07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL
	SUBM ID	KJELDAHL N	NO3 & NO2 N	ORGANIC N	AMMONIA N	N	ORTHO PO4 MG/L	P MG/L	ORGANIC C MG/L
SAMPLES(FLAGS)	0301	4(0)	4(1)		1(0)	4(1)	1(1)	4(0)	ECHANTILLONS(IND.)
LOW		.01	L.02		.006	L.02	L.003	.004	MINIMUM
HIGH		.09	.04		.006	.12	L.003	.008	MAXIMUM
AVERAGE		.04	.028*			.07*		.006	MOYENNE
STD.DEV.		.04	.010*			.04*		.002	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.01	.020*			.03*		.005	25 <sup>e</sup>
MEDIAN 50TH		.04	.025			.07		.006	50 <sup>e</sup> MEDIANE
75TH		.08	.035			.10		.008	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07GC0003** LAT. **54 D 15M 0 S** LONG. **120 D 15M 0 S**UTM **10 679200E 6014600 N**  
APR 20, 1977 TO/À AUG 18, 1977NARRAWAY RIVER U/S FROM PROPOSED COAL  
DEVELOPMENT SITE, BRITISH COLUMBIA

		08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
	SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>4(0)</b>	<b>2(0)</b>		<b>2(2)</b>	<b>2(2)</b>	<b>2(0)</b>		<b>2(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>9.9</b>	<b>.03</b>		<b>L.005</b>	<b>L.02</b>	<b>.1</b>		<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>12.8</b>	<b>.06</b>		<b>L.005</b>	<b>L.02</b>	<b>.2</b>		<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>11.4</b>	<b>.05</b>				<b>.15</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>1.2</b>	<b>.02</b>				<b>.07</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>10.5</b>								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>11.5</b>	<b>.05</b>		<b>L.005</b>	<b>L.02</b>	<b>.15</b>		<b>L.010</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>12.3</b>								<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>			<b>02E</b>			<b>04E</b>				<b>CODE DE SECOURS</b>

		29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	46002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>2(2)</b>		<b>2(2)</b>		<b>2(2)</b>	<b>2(0)</b>	<b>2(2)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>		<b>L.005</b>		<b>L.005</b>	<b>.0005</b>	<b>L.0005</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>L.001</b>		<b>L.005</b>		<b>L.005</b>	<b>.0007</b>	<b>L.0005</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>							<b>.0006</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>							<b>.0001</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.001</b>		<b>L.005</b>		<b>L.005</b>	<b>.0006</b>	<b>L.0005</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>04L</b>		<b>03L</b>			<b>01E</b>	<b>03L</b>		<b>CODE DE SECOURS</b>

		82002L LEAD TOTAL PB	82104L LEAD DISSOLVED MG/L	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MF	10471L RESIDUE TOTAL MG/L	10452L RESIDUE FILTERABLE MG/L	
	SUBM ID	MG/L	MG/L	NO/ML	NO/ML	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>2(2)</b>				<b>4(0)</b>	<b>4(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>				<b>72.</b>	<b>70.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.001</b>				<b>156.</b>	<b>154.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>						<b>108.</b>	<b>104.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>						<b>39.</b>	<b>41.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						<b>77.</b>	<b>71.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.001</b>				<b>102.</b>	<b>96.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						<b>139.</b>	<b>137.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>								<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>04L</b>						<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION 00CB07GC0004 LAT 54 0 21M 0 S LONG 120 0 0M 0 E

UTM 11 305000E 6026400 N  
MAR 10 1977 TO/A AUG 18 1977NARRAWAY RIVER NEAR B.C.-ALBERTA  
BORDER BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PTHALEIN CACO3 MG/L	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH-UNITS	CACO3 MG/L	CACO3 MG/L	
SAMPLES(FLAGS) 0301	5(0)		5(0)	5(1)	5(0)	4(0)	4(0)		ECHANTILLONS(IND.)
LOW	173.		87.9	L5.	.5	8.2	86.4		MINIMUM
HIGH	340.		173.	15.	21.	8.3	143.		MAXIMUM
AVERAGE	256.		130.4	9.*	6.6		109.7		MOYENNE
STD.DEV.	78.		39.0	5.*	8.4		28.1		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	187.		95.	5.	.9	8.2	86.5		25 <sup>e</sup>
MEDIAN 50TH	253.		131.	5.	4.4	8.3	104.8		50 <sup>e</sup> MEDIANE
75TH	329.		165.	15.	6.2	8.3	133.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG SULPH MG/L	
SAMPLES(FLAGS) 0301	5(0)	5(0)					1(0)		ECHANTILLONS(IND.)
LOW	24.5	6.5					.002		MINIMUM
HIGH	47.6	13.1					.002		MAXIMUM
AVERAGE	36.12	9.8							MOYENNE
STD.DEV.	10.76	3.0							ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	26.5	7.							25 <sup>e</sup>
MEDIAN 50TH	35.7	10.1							50 <sup>e</sup> MEDIANE
75TH	46.3	12.1							75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E							CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	C MG/L	
SAMPLES(FLAGS) 0301	4(1)	4(3)		2(0)	4(0)	2(2)	5(1)	1(0)	ECHANTILLONS(IND.)
LOW	L.01	L.02		.005	.02	L.003	L.003	3.	MINIMUM
HIGH	.15	.02		.006	.15	L.003	.071	3.	MAXIMUM
AVERAGE	.07*	.020*		.006	.07		.020*		MOYENNE
STD.DEV.	.07*	.000*		.001	.06		.029*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.01*	L.020			.02		.005		25 <sup>e</sup>
MEDIAN 50TH	.06	L.020		.006	.06	L.003	.01		50 <sup>e</sup> MEDIANE
75TH	.13	.020*			.13		.013		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00CB07GC0004** LAT. **54 D 21 M 0 S** LONG. **120 D 0 M 0 S**

UTM **11 305000 E 6026400 N**  
MAR 10, 1977 TO/A AUG 18, 1977

NARRAWAY RIVER NEAR B.C.-ALBERTA  
BORDER, BRITISH COLUMBIA

	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b> 0301	4(0)	2(0)		2(2)	5(4)	5(0)	1(1)	5(5)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	9.4	.04		L.005	L.02	.1	L.1	L.01	<b>MINIMUM</b>
<b>HIGH</b>	12.8	.04		L.005	.02	1.3	L.1	L.01	<b>MAXIMUM</b>
<b>AVERAGE</b>	10.7	.04			.02*	.38			<b>MOYENNE</b>
<b>STD.DEV.</b>	1.5	.00			.00*	.52			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	9.8				L.02	.1		L.01	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	10.3	.04		L.005	L.02	.2		L.01	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	11.6				L.02	.2		L.01	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		02E			04E			02E	CODE DE SECOURS

	29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(5)	1(1)	5(4)	1(1)	3(3)	2(0)	4(4)	1(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.001	L.001	L.005	L.005	L.005	.0005	L.0005	L.05	<b>MINIMUM</b>
<b>HIGH</b>	L.001	L.001	.013	L.005	L.005	.0009	L.0005	L.05	<b>MAXIMUM</b>
<b>AVERAGE</b>			.007*			.0007			<b>MOYENNE</b>
<b>STD.DEV.</b>			.004*			.0003			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.001		L.005				L.0005		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.001		L.005		L.005	.0007	L.0005		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.001		L.005				L.0005		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	04L		03L			01E	03L		CODE DE SECOURS

	82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MF	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	MG/L	MG/L	NO/ML	NO/ML	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0301	5(4)	1(1)			5(0)	5(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.001	L.001			120.	104.	<b>MINIMUM</b>
<b>HIGH</b>	.003	L.001			204.	200.	<b>MAXIMUM</b>
<b>AVERAGE</b>	.001*				166.	151.	<b>MOYENNE</b>
<b>STD.DEV.</b>	.001*				33.	43.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>							<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.001				154.	112.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.001				164.	152.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.001				190.	188.	<b>75<sup>e</sup></b>
<b>90TH</b>							<b>90<sup>e</sup></b>
SECONDARY CODE	04L						CODE DE SECOURS

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## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 00CB07GC0005 LAT 54 D 41M 0 S LONG 120 D 15M 0 S

ITEM 10 677200 6062800  
MAR 10 1977 TO/A AUG 18 1977RED DEER CREEK ABOVE WAPITI RIVER  
BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	
SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
SAMPLES(FLAGS) 0301	4(0)	3(0)	4(0)	4(1)	4(0)	3(0)	3(0)		ECHANTILLONS(IND.)
LOW	201.	0.	105.	15.	1.3	8.2	102.		MINIMUM
HIGH	329.	0.	167.	20.	44.	8.3	121.		MAXIMUM
AVERAGE	257.	.0	131.0	12.*	16.4		114.0		MOYENNE
STD.DEV.	53.	.0	26.0	6.*	18.9		10.4		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	223.		114.5	7.*	5.3				25 <sup>e</sup>
MEDIAN 50TH	250.	0.	126.0	13.	10.2	8.3	119.		50 <sup>e</sup> MEDIANE
75TH	292.		147.5	18.	27.5				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN LIG SULPH.	
SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG SULPH. MG/L	
SAMPLES(FLAGS) 0301	4(0)	4(0)							ECHANTILLONS(IND.)
LOW	32.	6.1							MINIMUM
HIGH	51.	9.7							MAXIMUM
AVERAGE	39.55	7.9							MOYENNE
STD.DEV.	8.13	1.5							ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	34.25	6.9							25 <sup>e</sup>
MEDIAN 50TH	37.60	7.9							50 <sup>e</sup> MEDIANE
75TH	44.85	8.9							75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02E							CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC C	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	MG/L	
SAMPLES(FLAGS) 0301	3(0)	3(1)			3(0)		3(0)		ECHANTILLONS(IND.)
LOW	.08	.02			.08		.018		MINIMUM
HIGH	.23	.04			.26		.091		MAXIMUM
AVERAGE	.15	.030*			.17		.043		MOYENNE
STD.DEV.	.08	.010*			.09		.042		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	.14	.03			.18		.02		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07GC0005** LAT. **54 D 41M 0 S** LONG. **120 D 15M 0 S**UTM **10 677200E 6062800 N**  
MAY 19, 1977 TO/A AUG 18, 1977RED DEER CREEK ABOVE WAPITI RIVER,  
BRITISH COLUMBIA

		08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
	SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>3(0)</b>	<b>2(0)</b>		<b>2(2)</b>	<b>2(2)</b>	<b>2(0)</b>		<b>2(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>7.2</b>	<b>.09</b>		<b>L.005</b>	<b>L.02</b>	<b>.5</b>		<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>11.8</b>	<b>.4</b>		<b>L.005</b>	<b>L.02</b>	<b>.6</b>		<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>10.2</b>	<b>.25</b>				<b>.55</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>2.6</b>	<b>.22</b>				<b>.07</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>11.5</b>	<b>.25</b>		<b>L.005</b>	<b>L.02</b>	<b>.55</b>		<b>L.010</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>			<b>02E</b>			<b>04E</b>			<b>02E</b>	<b>CODE DE SECOURS</b>

		29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>2(2)</b>		<b>2(1)</b>		<b>2(2)</b>	<b>2(1)</b>	<b>2(2)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>		<b>L.005</b>		<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>L.001</b>		<b>.009</b>		<b>L.005</b>	<b>.001</b>	<b>L.0005</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.007*</b>			<b>.0007*</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>.003*</b>			<b>.0004*</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.001</b>		<b>.007*</b>		<b>L.005</b>	<b>.0007*</b>	<b>L.0005</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>04L</b>		<b>03L</b>		<b>01E</b>		<b>03L</b>		<b>CODE DE SECOURS</b>

		82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MF	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
	SUBM ID	MG/L	MG/L	NO/ML	NO/ML	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>2(2)</b>				<b>4(0)</b>	<b>4(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>				<b>166.</b>	<b>128.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.001</b>				<b>240.</b>	<b>178.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>						<b>195.</b>	<b>153.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>						<b>32.</b>	<b>21.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						<b>172.</b>	<b>138.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.001</b>				<b>187.</b>	<b>153.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						<b>218.</b>	<b>168.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>								<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>04L</b>						<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
PEACE RIVER SUB-BASIN

STATION 00CB07GC0006 LAT. 54 D 41M 0 S LONG. 120 D 5M 0 S

UTM 10 688000E 6063200 N  
MAR 10 1977 TO/A AUG 18 1977

BELCOURT CREEK ABOVE WAPITI RIVER  
BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	ALKALINITY PHENOL PHTHALEIN	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
SAMPLES(FLAGS)	0301	4(0)	3(0)	4(0)	4(1)	3(0)	3(0)	3(0)	1(0)	ECHANTILLONS(IND.)
LOW		210.	0.	111.	15.	3.2	8.3	111.	1.6	MINIMUM
HIGH		320.	0.	163.	30.	40.	8.5	128.	1.6	MAXIMUM
AVERAGE		251.	.0	130.3	20.*	21.4		119.7		MOYENNE
STD.DEV.		48.	.0	22.6	12.*	18.4		8.5		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		223.		117.0	10.*					25 <sup>e</sup>
MEDIAN 50TH		238.	0.	123.5	23.	21.	8.3	120.		50 <sup>e</sup> MEDIANE
75TH		280.		143.5	30.					75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG SULPH MG/L	
SAMPLES(FLAGS)	0301	4(0)	4(0)	1(0)	1(0)					ECHANTILLONS(IND.)
LOW		31.8	7.7	2.	152.					MINIMUM
HIGH		47.4	10.8	2.	152.					MAXIMUM
AVERAGE		37.40	8.9							MOYENNE
STD.DEV.		6.86	1.3							ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		33.40	8.0							25 <sup>e</sup>
MEDIAN 50TH		35.20	8.6							50 <sup>e</sup> MEDIANE
75TH		41.40	9.8							75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			02E							CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	C MG/L	
SAMPLES(FLAGS)	0301	3(0)	3(3)			3(0)		3(0)		ECHANTILLONS(IND.)
LOW		.15	L.02			.15		.02		MINIMUM
HIGH		.16	L.02			.16		.061		MAXIMUM
AVERAGE		.15				.15		.039		MOYENNE
STD.DEV.		.01				.01		.021		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		.15	L.02			.15		.035		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00CB07GC0006** LAT. **54 D 41 M 0 S** LONG. **120 D 5 M 0 S**

UTM **10 688000 E 6063200 N**  
MAY 19, 1977 TO/A AUG 18, 1977

BELCOURT CREEK ABOVE WAPITI RIVER,  
BRITISH COLUMBIA

	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b> 0301	2(0)	2(0)		2(2)	2(1)	2(0)		1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>9.6</b>	<b>.33</b>		<b>L.005</b>	<b>L.02</b>	<b>.6</b>		<b>.01</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>11.4</b>	<b>2.1</b>		<b>L.005</b>	<b>.03</b>	<b>2.1</b>		<b>.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>10.5</b>	<b>1.21</b>			<b>.02*</b>	<b>1.35</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.3</b>	<b>1.25</b>			<b>.01*</b>	<b>1.06</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>10.5</b>	<b>1.21</b>		<b>L.005</b>	<b>.02*</b>	<b>1.35</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		02E						02E	CODE DE SECOURS

	29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0301	2(1)		2(0)		2(2)	2(1)	2(2)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>		<b>.008</b>		<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>.002</b>		<b>.034</b>		<b>L.005</b>	<b>.0008</b>	<b>L.0005</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.001*</b>		<b>.021</b>			<b>.0006*</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.001*</b>		<b>.018</b>			<b>.0002*</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.001*</b>		<b>.021</b>		<b>L.005</b>	<b>.0006*</b>	<b>L.0005</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MF	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	MG/L	MG/L	NO/ML	NO/ML	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0301	2(2)				4(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>				<b>166.</b>	<b>138.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.001</b>				<b>210.</b>	<b>180.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>					<b>191.</b>	<b>156.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>					<b>19.</b>	<b>18.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>							<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>177.</b>	<b>144.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.001</b>				<b>193.</b>	<b>152.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>204.</b>	<b>167.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>							<b>90<sup>e</sup></b>
SECONDARY CODE							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960.79

## PEACE RIVER SUB-BASIN

STATION 00CB07GC0007 LAT. 54 D 21M 0 S LONG. 120 D 1M 0 S

UTM 10 693800E 6026400N  
APR 20 1977 TO: A AUG 18 1977SAXON CREEK NEAR MOUTH.  
BRITISH COLUMBIA

		10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
	SUBM ID	USIE CM	MG/L	REL UNITS	JTU	PH-UNITS	CACO3 MG/L	CACO3 MG/L	
SAMPLES(FLAGS)	0301	4(0)	3(0)	4(0)	4(0)	4(0)	4(0)		ECHANTILLONS(IND.)
LOW		270.	0.	137.	5.	2.2	8.2	119.	MINIMUM
HIGH		416.	0.	218.	30.	12.	8.3	174.	MAXIMUM
AVERAGE		340.	.0	172.8	15.	7.4		147.5	MOYENNE
STD.DEV.		79.	.0	41.0	12.	4.0		24.7	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		272.		138.0	5.	4.7	8.2	127.5	25 <sup>e</sup>
MEDIAN 50TH		337.	0.	168.0	13.	7.7	8.3	148.5	50 <sup>e</sup> MEDIANE
75TH		408.		207.5	25.	10.0	8.3	167.5	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

		20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	SUBM ID	CA MG/L	MG	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG. SULPH MG/L	
SAMPLES(FLAGS)	0301	4(0)	4(0)					1(1)		ECHANTILLONS(IND.)
LOW		38.5	9.7					L.002		MINIMUM
HIGH		64.5	14.					L.002		MAXIMUM
AVERAGE		49.42	12.0							MOYENNE
STD.DEV.		12.97	2.3							ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		38.60	10.0							25 <sup>e</sup>
MEDIAN 50TH		47.35	12.1							50 <sup>e</sup> MEDIANE
75TH		60.25	13.9							75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			02E							CODE DE SECOURS

		07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
	SUBM ID	KJELDAHL N MG/L	NO3 & NO2 N MG/L	ORGANIC N MG/L	AMMONIA N MG/L	N MG/L	ORTHO PO4 MG/L	P MG/L	ORGANIC C MG/L	
SAMPLES(FLAGS)	0301	4(0)	4(4)			4(2)	1(1)	4(0)	1(0)	ECHANTILLONS(IND.)
LOW		.01	L.02			L.02	L.003	.009	5.	MINIMUM
HIGH		.15	L.02			.15	L.003	.037	5.	MAXIMUM
AVERAGE		.07				.08*		.028		MOYENNE
STD.DEV.		.07				.07*		.013		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.01	L.020			L.02		.020		25 <sup>e</sup>
MEDIAN 50TH		.07	L.020			.07*		.033		50 <sup>e</sup> MEDIANE
75TH		.14	L.020			.14		.036		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **00CB07GC0007** LAT. **54 D 21 M 0 S** LONG. **120 D 1 M 0 S**

UTM **10 693800 E 6026400 N**  
APR 20, 1977 TO/A AUG 18, 1977

SAXON CREEK NEAR MOUTH,  
BRITISH COLUMBIA

	08102F OXYGEN DISSOLVED	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b> 0301	4(0)	2(0)		2(2)	3(3)	3(0)	1(1)	3(3)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>10.2</b>	<b>.02</b>		<b>L.005</b>	<b>L.02</b>	<b>.1</b>	<b>L.1</b>	<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>12.2</b>	<b>.17</b>		<b>L.005</b>	<b>L.02</b>	<b>.9</b>	<b>L.1</b>	<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>11.0</b>	<b>.10</b>				<b>.47</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.0</b>	<b>.11</b>				<b>.40</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>10.2</b>								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>10.8</b>	<b>.10</b>		<b>L.005</b>	<b>L.02</b>	<b>.4</b>		<b>L.01</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>11.8</b>								<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		02E			04E			02E	CODE DE SECOURS

	29005L COPPER TOTAL	29107L COPPER DISSOLVED	30005L ZINC TOTAL	30107L ZINC DISSOLVED	33003L ARSENIC TOTAL	42002L MOLYBDENUM TOTAL	48002L CADMIUM TOTAL	80013E MERCURY TOTAL	
SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	MO MG/L	CD MG/L	HG UG/L	
<b>SAMPLES(FLAGS)</b> 0301	3(2)	1(1)	3(0)	1(1)	2(2)	2(1)	2(2)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>	<b>L.001</b>	<b>.005</b>	<b>L.005</b>	<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>	<b>.12</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.002</b>	<b>L.001</b>	<b>.013</b>	<b>L.005</b>	<b>L.005</b>	<b>.0005</b>	<b>L.0005</b>	<b>.12</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.001*</b>		<b>.010</b>			<b>.0005*</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.001*</b>		<b>.004</b>			<b>.0000*</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.001</b>		<b>.011</b>		<b>L.005</b>	<b>.0005*</b>	<b>L.0005</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	04L		03L			01E	03L	13L	CODE DE SECOURS

	82002L LEAD TOTAL	82104L LEAD DISSOLVED	36000E COLIFORMS TOTAL	36010E COLIFORMS FECAL	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	PB MG/L	PB MG/L	MPN NO/ML	MF NO/ML	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0301	3(2)	1(1)	2(0)	2(1)	4(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>	<b>L.001</b>	<b>2.</b>	<b>L2.</b>	<b>182.</b>	<b>162.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.001</b>	<b>L.001</b>	<b>11.</b>	<b>7.</b>	<b>276.</b>	<b>274.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.001*</b>		<b>7.</b>	<b>4.*</b>	<b>236.</b>	<b>212.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.000*</b>		<b>6.</b>	<b>4.*</b>	<b>47.</b>	<b>54.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>							<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>196.</b>	<b>166.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.001</b>		<b>7.</b>	<b>4.*</b>	<b>242.</b>	<b>205.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>275.</b>	<b>257.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>							<b>90<sup>e</sup></b>
SECONDARY CODE	04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 00CB07GC0008 LAT. 54 D 16 M 0 S LONG. 120 D 2 M 0 S

UTM 10 693200E 6017000 N  
APR 20 1977 TO/A AUG 18 1977SAXON CREEK BELOW PROPOSED COAL  
DEVELOPMENT SITE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10801L SALINITY	10603E HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	10151L ALKALINITY PHENOL PHTHALEIN	
	SUBM ID	USIE CM	MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	CACO3 MG/L	
SAMPLES(FLAGS)	0301	4(0)	3(0)	4(0)	4(0)	4(0)	4(0)	1(0)	ECHANTILLONS(IND.)
LOW		173.	0.	90.5	5.	3.8	8.2	90.4	MINIMUM
HIGH		312.	0.	159.	50.	23.	8.5	157.	MAXIMUM
AVERAGE		235.	.0	121.6	26.	11.6		120.1	MOYENNE
STD.DEV.		62.	.0	31.6	22.	8.8		31.0	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		186.		95.8	8.	4.7	8.2	94.7	25 <sup>e</sup>
MEDIAN 50TH		227.	0.	118.5	25.	9.8	8.2	116.5	50 <sup>e</sup> MEDIANE
75TH		284.		147.5	45.	18.5	8.4	145.5	75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	16303L SULPHATE DISSOLVED	09108L FLUORIDE DISSOLVED	06531L PHENOLIC MATERIAL	06551L TANNIN AND LIGNIN	
	SUBM ID	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	SO4 MG/L	F MG/L	PHENOL MG/L	LIG SULPH MG/L
SAMPLES(FLAGS)	0301	4(0)	4(0)	1(0)	1(0)				ECHANTILLONS(IND.)
LOW		25.2	6.7	2.	188.				MINIMUM
HIGH		43.8	12.	2.	188.				MAXIMUM
AVERAGE		33.65	9.1						MOYENNE
STD.DEV.		8.46	2.5						ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		26.80	7.0						25 <sup>e</sup>
MEDIAN 50TH		32.80	8.9						50 <sup>e</sup> MEDIANE
75TH		40.50	11.3						75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

02E

CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07552E NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL	
	SUBM ID	KJELDAHL N MG/L	NO3 & NO2 N MG/L	ORGANIC N MG/L	AMMONIA N MG/L	ORTHO PO4 MG/L	P MG/L	ORGANIC C MG/L	
SAMPLES(FLAGS)	0301	4(0)	4(3)			4(0)	1(0)	4(0)	ECHANTILLONS(IND.)
LOW		.06	L.02			.06	.007	.014	MINIMUM
HIGH		.19	.04			.19	.007	.05	MAXIMUM
AVERAGE		.13	.025*			.14	.027	.027	MOYENNE
STD.DEV.		.07	.010*			.06	.017	.017	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.07	L.020			.09		.014	25 <sup>e</sup>
MEDIAN 50TH		.13	L.020			.15		.022	50 <sup>e</sup> MEDIANE
75TH		.19	.030*			.19		.040	75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **00CB07GC0008** LAT. **54 D 16 M 0 S** LONG. **120 D 2 M 0 S**UTM **10 693200E 6017000 N**  
APR 20, 1977 TO/À AUG 18, 1977SAXON CREEK BELOW PROPOSED COAL  
DEVELOPMENT SITE, BRITISH COLUMBIA

	08102F OXYGEN DISSOLVED DO	13002L ALUMINUM TOTAL	23002L VANADIUM TOTAL	24002E CHROMIUM TOTAL	25004L MANGANESE TOTAL	26004L IRON TOTAL	26104L IRON DISSOLVED	28007L NICKEL TOTAL	
SUBM ID	O2 MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b> 0301	4(0)	2(0)		2(2)		2(0)		2(2)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>8.7</b>	<b>.02</b>		<b>L.005</b>		<b>.2</b>		<b>L.01</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>12.8</b>	<b>.48</b>		<b>L.005</b>		<b>.8</b>		<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>10.9</b>	<b>.25</b>				<b>.50</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1.8</b>	<b>.33</b>				<b>.42</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>9.4</b>								<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>11.0</b>	<b>.25</b>		<b>L.005</b>		<b>.50</b>		<b>L.010</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>12.3</b>								<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		02E						02E	CODE DE SECOURS

	29005L COPPER TOTAL CU	29107L COPPER DISSOLVED CU	30005L ZINC TOTAL ZN	30107L ZINC DISSOLVED ZN	33003L ARSENIC TOTAL AS	42002L MOLYBDENUM TOTAL MO	48002L CADMIUM TOTAL CD	80013E MERCURY TOTAL HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0301	2(1)		2(1)		2(2)	2(2)	2(2)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>		<b>L.005</b>		<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>.002</b>		<b>.014</b>		<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.001*</b>		<b>.009*</b>						<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.001*</b>		<b>.006*</b>						<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.001*</b>		<b>.009*</b>		<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	04L		03L			01E	03L		CODE DE SECOURS

	82002L LEAD TOTAL PB	82104L LEAD DISSOLVED PB	36000E COLIFORMS TOTAL MPN	36010E COLIFORMS FECAL MF	10471L RESIDUE TOTAL	10452L RESIDUE FILTERABLE	
SUBM ID	MG/L	MG/L	NO/ML	NO/ML	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0301	2(2)				4(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>				<b>156.</b>	<b>120.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.001</b>				<b>194.</b>	<b>178.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>					<b>167.</b>	<b>156.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>					<b>18.</b>	<b>27.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>							<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>156.</b>	<b>135.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.001</b>				<b>158.</b>	<b>162.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>177.</b>	<b>176.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>							<b>90<sup>e</sup></b>
SECONDARY CODE	04L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 01CB07ED0001 LAT. 55 D 21 M 30 S LONG. 125 D 16 M 0 S

UTM 10 356400E 6136800 N  
JUL 21 1977 TO/A SEP 04 1977INDATA LAKE AT CENTRE OF LAKE  
BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N	
	SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L	MG/L
SAMPLES(FLAGS)	0301	2(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW		79.	42.2	.6	7.8	45.3	13.6	2.	MINIMUM
HIGH		90.	42.2	.6	7.8	45.3	13.6	2.	MAXIMUM
AVERAGE		85.							MOYENNE
STD.DEV.		8.							ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		85.							50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			03E						CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	
	SUBM ID	NO3 MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	
SAMPLES(FLAGS)	0301	1(1)	1(1)	1(1)	1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	.11	.009	.12	L.003	MINIMUM
HIGH		L.02	L.005	L.02	.11	.009	.12	L.003	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

		06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
	SUBM ID	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS)	0301			3(0)	4(4)	2(2)	4(0)	4(3)	4(1)	ECHANTILLONS(IND.)
LOW				1.7	L.005	L.02	.1	L.01	L.001	MINIMUM
HIGH				2.1	L.005	L.02	.2	.02	.004	MAXIMUM
AVERAGE				1.9			.13	.012°	.002°	MOYENNE
STD.DEV.				.2			.05	.005°	.002°	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH					L.005		.10	L.010	.001°	25 <sup>e</sup>
MEDIAN 50TH				1.8	L.005	L.02	.10	L.010	.001	50 <sup>e</sup> MEDIANE
75TH					L.005		.15	.015°	.003	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				02L	04L			02E	05L	CODE DE SECOURS



## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **01CB07ED0001** LAT. **55 D 21M 30 S** LONG. **125 D 16M 0 S**UTM **10 356400E 6136800 N**  
JUN 24, 1977 TO/A OCT 14, 1977INDATA LAKE AT CENTRE OF LAKE,  
BRITISH COLUMBIA

	30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL	10402L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS) 0301	4(4)	4(1)	4(4)	3(3)	4(3)	1(0)	2(1)	ECHANTILLONS(IND.)
LOW	L.005	L.0005	L.0005	L.05	L.001	70.	L1.	MINIMUM
HIGH	L.005	.001	L.0005	L.05	.003	70.	2.	MAXIMUM
AVERAGE		.0008*			.001*		1.*	MOYENNE
STD.DEV.		.0002*			.001*		1.*	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	L.005	.0006*	L.0005		L.001			25 <sup>e</sup>
MEDIAN 50TH	L.005	.0009	L.0005	L.05	L.001		1.*	50 <sup>e</sup> MEDIANE
75TH	L.005	.0010	L.0005		.002*			75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE	05L	02L	03L		02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 01CB07ED0002 LAT. 55 D 12 M 0 S LONG. 125 D 10 M 0 S

UTM 10 362200E 6119000 N  
JUL 24 1977 TO/A SEP 04 1977TCHENTLO LAKE AT WESTERN BEND NEAR  
MIDDLE OF LAKE BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
	SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L		
SAMPLES(FLAGS)	0301	2(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW		77.	36.6	.3	7.8	39.5	10.7	2.4	.2	MINIMUM
HIGH		78.	36.6	.3	7.8	39.5	10.7	2.4	.2	MAXIMUM
AVERAGE		78.								MOYENNE
STD.DEV.		1.								ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		78.								50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			03E							CODE DE SECOURS

		07103L NITRATE & NITRITE DISSOLVED NO3 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	
SAMPLES(FLAGS)	0301	1(1)	1(1)	1(1)	1(0)	1(0)	1(0)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	.17	.015	.18	L.003	.004	MINIMUM
HIGH		L.02	L.005	L.02	.17	.015	.18	L.003	.004	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH										50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	12002E MAGNESIUM TOTAL MG	24002E CHROMIUM TOTAL CR MG/L	25004E MANGANESE TOTAL MN MG/L	26004L IRON TOTAL FE MG/L	28007L NICKEL TOTAL NI MG/L	29004L COPPER TOTAL CU MG/L	
SAMPLES(FLAGS)	0301			3(0)	4(4)	2(2)	4(0)	3(2)	4(2)	ECHANTILLONS(IND.)
LOW				2.4	L.005	L.02	.1	L.01	L.001	MINIMUM
HIGH				2.6	L.005	L.02	.1	.03	.006	MAXIMUM
AVERAGE				2.5			.10	.017*	.002*	MOYENNE
STD.DEV.				.1			.00	.012*	.003*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH					L.005		.10		L.001	25 <sup>e</sup>
MEDIAN 50TH				2.5	L.005	L.02	.10	L.01	.001*	50 <sup>e</sup> MEDIANE
75TH					L.005		.10		.004	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE					04L			02E		CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **01CB07ED0002** LAT. **55 D 12 M 0 S** LONG. **125 D 10 M 0 S**UTM **10 362200E 6119000 N**  
JUN 25, 1977 TO/À OCT 19, 1977TCHENTLO LAKE AT WESTERN BEND NEAR  
MIDDLE OF LAKE, BRITISH COLUMBIA

SUBM ID	30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	ECHANTILLONS(IND.)
<b>SAMPLES(FLAGS)</b> 0301	4(3)	3(1)	4(3)	3(2)	4(3)	1(0)	2(1)	
<b>LOW</b>	<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>60.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.005</b>	<b>.0006</b>	<b>.0006</b>	<b>.08</b>	<b>.004</b>	<b>60.</b>	<b>2.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.005*</b>	<b>.0006*</b>	<b>.0005*</b>	<b>.06*</b>	<b>.002*</b>		<b>1.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.000*</b>	<b>.0001*</b>	<b>.0001*</b>	<b>.02*</b>	<b>.002*</b>		<b>1.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.005</b>		<b>L.0005</b>		<b>L.001</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.005</b>	<b>.0006</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>		<b>1.*</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.005*</b>		<b>.0005*</b>		<b>.002*</b>			<b>75<sup>e</sup></b>
<b>90TH</b>								<b>90<sup>e</sup></b>
SECONDARY CODE	05L	02L	03L	02L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960.79  
PEACE RIVER SUB BASIN

STATION 01CB07ED0003 LAT. 55 D 12 M 0 S LONG. 125 D 1 M 0 S

UTM 10 371600E 6118600 N  
JUL 24 1977 TO/A SEP 04 1977

TOHENTLO LAKE AT MIDDLE NEAR ISLAND  
BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L	MG/L	
SAMPLES(FLAGS) 0301	2(0)	1(0)	1(0)	1(0)	1(0)		1(0)	1(0)	ECHANTILLONS(IND.)
LOW	76.	36.1	.4	7.8	38.9		2.4	.2	MINIMUM
HIGH	77.	36.1	.4	7.8	38.9		2.4	.2	MAXIMUM
AVERAGE	77.								MOYENNE
STD.DEV.	1.								ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	77.								50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED NO3 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	1(1)	1(1)	1(1)	1(0)	1(0)	1(0)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW	L.02	L.005	L.02	.18	.023	.2	L.003	.005	MINIMUM
HIGH	L.02	L.005	L.02	.18	.023	.2	L.003	.005	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	12002E MAGNESIUM TOTAL MG MG/L	24002E CHROMIUM TOTAL CR MG/L	25004E MANGANESE TOTAL MN MG/L	26004L IRON TOTAL FE MG/L	28007L NICKEL TOTAL N MG/L	29004L COPPER TOTAL CU MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301			3(0)	4(4)	2(2)	4(3)	4(4)	4(1)	ECHANTILLONS(IND.)
LOW			2.5	L.005	L.02	L.1	L.01	L.001	MINIMUM
HIGH			2.7	L.005	L.02	.1	L.01	.003	MAXIMUM
AVERAGE			2.6			.10*		.002*	MOYENNE
STD.DEV.			.1			.00*		.001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				L.005		L.10	L.010	.001*	25 <sup>e</sup>
MEDIAN 50TH			2.6	L.005	L.02	L.10	L.010	.002	50 <sup>e</sup> MEDIANE
75TH				L.005		.10*	L.010	.003	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02L						CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **01CB07ED0003** LAT. **55 D 12M 0 S** LONG. **125 D 1M 0 S**UTM **10 371600 E 6118600 N**  
JUN 26, 1977 TO/À OCT 18, 1977TCHENTLO LAKE AT MIDDLE NEAR ISLAND,  
BRITISH COLUMBIA

	30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
<b>SAMPLES(FLAGS)</b> 0301	4(3)	4(2)	4(4)	3(2)	4(3)	1(0)	2(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.00</b>	<b>L.001</b>	<b>58.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.005</b>	<b>L.05</b>	<b>L.0005</b>	<b>.06</b>	<b>.003</b>	<b>58.</b>	<b>1.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.005*</b>	<b>.0130*</b>		<b>.04*</b>	<b>.001*</b>		<b>1.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.000*</b>	<b>.0246*</b>		<b>.03*</b>	<b>.001*</b>		<b>0.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.005</b>	<b>.0005*</b>	<b>L.0005</b>		<b>L.001</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.005</b>	<b>.0009</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>		<b>1.*</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.005*</b>	<b>.0255*</b>	<b>L.0005</b>		<b>.002*</b>			<b>75<sup>e</sup></b>
<b>90TH</b>								<b>90<sup>e</sup></b>

SECONDARY CODE

03L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 01CB07ED0004 LAT. 55 D 13 M 0 S LONG. 124 D 52 M 30 S

UTM 10 380800E 6120200 N  
JUL 24 1977 TO/A SEP 04 1977TOHENTLO LAKE EASTERN BEND AT  
MIDDLE OF LAKE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L		
SAMPLES(FLAGS) 0301	2(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW	76.	36.1	.3	7.8	39.2	10.5	2.4	.1	MINIMUM
HIGH	77.	36.1	.3	7.8	39.2	10.5	2.4	.1	MAXIMUM
AVERAGE	77.								MOYENNE
STD.DEV.	1.								ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	77.								50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		03E							CODE DE SECOURS

	07103L NITRATE & NITRITE DISSOLVED N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	
SUBM ID	NO3 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301	1(1)	1(1)	1(1)	1(0)	1(0)	1(0)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW	L.02	L.005	L.02	.07	.015	.08	L.003	.004	MINIMUM
HIGH	L.02	L.005	L.02	.07	.015	.08	L.003	.004	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	12002E MAGNESIUM TOTAL MG/L	24002E CHROMIUM TOTAL CR MG/L	25004E MANGANESE TOTAL MN MG/L	26004L IRON TOTAL FE MG/L	28007L NICKEL TOTAL NI MG/L	29004L COPPER TOTAL CU MG/L	
SUBM ID	C MG/L	C MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0301			3(0)	4(4)	2(2)	4(2)	4(4)	4(1)	ECHANTILLONS(IND.)
LOW			2.5	L.005	L.02	L.1	L.01	L.001	MINIMUM
HIGH			2.7	L.005	L.02	.1	L.01	.003	MAXIMUM
AVERAGE			2.6			.10*		.002*	MOYENNE
STD.DEV.			1			.00*		.001*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				L.005		L.10	L.010	.001*	25 <sup>e</sup>
MEDIAN 50TH			2.6	L.005	L.02	.10*	L.010	.002	50 <sup>e</sup> MEDIANE
75TH				L.005		10	L.010	.003	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE							02E	05L	CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **01CB07ED0004** LAT. **55 D 13 M 0 S** LONG. **124 D 52 M 30 S**UTM **10 380800E 6120200 N**  
JUN 26, 1977 TO/A OCT 18, 1977TCHENTLO LAKE EASTERN BEND AT  
MIDDLE OF LAKE, BRITISH COLUMBIA

	30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS) 0301	4(2)	4(0)	4(3)	3(2)	4(3)	1(0)	2(1)	ECHANTILLONS(IND.)
LOW	L.005	.0006	L.0005	L.05	L.001	60.	L1.	MINIMUM
HIGH	.007	.001	.0005	.11	.002	60.	1.	MAXIMUM
AVERAGE	.005*	.0007	.0005*	.07*	.001*		1.*	MOYENNE
STD.DEV.	.001*	.0002	.0000*	.03*	.001*		0.*	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	L.005	.0006	L.0005		L.001			25 <sup>e</sup>
MEDIAN 50TH	.005*	.0006	L.0005	L.05	L.001		1.*	50 <sup>e</sup> MEDIANE
75TH	.006	.0008	.0005*		.001*			75 <sup>e</sup>
90TH								90 <sup>e</sup>

SECONDARY CODE

03L

02L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION, 01CB07ED0005 LAT 55 D 10 M 0 S LONG, 124 D 39 M 0 S

UTM 10 394800 6114400

JUN 21 1977 TO/A OCT 19 1977

CHUCHI LAKE AT MIDDLE NEAR SMALL  
ISLAND AT WESTERN END

		02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
	SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L		
SAMPLES(FLAGS)	0301	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW		67.	29.9	.3	7.5	33.2	9.	1.8	.1	MINIMUM
HIGH		69.	34.	.7	7.8	34.7	10.3	2.	.2	MAXIMUM
AVERAGE		68.	32.9	.5		33.9	10.00	1.9	.1	MOYENNE
STD.DEV.		1.	1.3	.1		.5	.44	.1	.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		68.	33.1	.4	7.5	34.	10.	1.9	.1	25 <sup>e</sup>
MEDIAN 50TH		68.	33.2	.5	7.6	34.1	10.2	2.	.1	50 <sup>e</sup> MEDIANE
75TH		68.	34.	.5	7.8	34.1	10.3	2.	.1	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			03E							CODE DE SECOURS

		07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO PO4	15406L PHOSPHORUS TOTAL P MG/L	
	SUBM ID	NO3 MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	MG/L		
SAMPLES(FLAGS)	0301	9(2)	9(9)	9(2)	9(0)	9(1)	9(0)	9(9)	9(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	.08	L.005	.09	L.003	.004	MINIMUM
HIGH		.03	L.005	.03	.14	.014	.18	L.003	.008	MAXIMUM
AVERAGE		.03*		.027*	.10	.010*	.13		.006	MOYENNE
STD.DEV.		.01*		.005*	.02	.003*	.03		.001	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.02	L.005	.02	.09	.01	.12	L.003	.005	25 <sup>e</sup>
MEDIAN 50TH		.03	L.005	.03	.09	.011	.13	L.003	.005	50 <sup>e</sup> MEDIANE
75TH		.03	L.005	.03	.1	.011	.14	L.003	.006	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
	SUBM ID	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS)	0301	9(0)	9(0)	9(0)	9(9)	9(9)	9(0)	9(9)	9(8)	ECHANTILLONS(IND.)
LOW		5.	5.	1.8	L.005	L.02	.1	L.01	L.001	MINIMUM
HIGH		7.	7.	2.	L.005	L.02	.2	L.01	.001	MAXIMUM
AVERAGE		5.7	6.1	1.9			.11		.001*	MOYENNE
STD.DEV.		.9	.6	.1			.03		.000*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		5.	6.	1.9	L.005	L.02	.1	L.01	L.001	25 <sup>e</sup>
MEDIAN 50TH		5.	6.	2.	L.005	L.02	.1	L.01	L.001	50 <sup>e</sup> MEDIANE
75TH		6.	6.	2.	L.005	L.02	.1	L.01	L.001	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **01CB07ED0005** LAT. **55 D 10 M 0 S** LONG. **124 D 39 M 0 S**UTM **10 394800E 6114400 N**  
JUN 21, 1977 TO/A OCT 19, 1977CHUCHI LAKE AT MIDDLE NEAR SMALL  
ISLAND AT WESTERN END

	30003L	42001E	48002L	80013E	82004L	10471L	10402L	
	ZINC	MOLYBDENUM	CADMIUM	MERCURY	LEAD	RESIDUE	RESIDUE	
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	NONFILTR.	
SUBM	ZN	MO	CD	HG	PB			
ID	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0301	9(9)	9(1)	9(9)	9(8)	9(8)	9(0)	9(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.000</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>50.</b>	<b>1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.005</b>	<b>.0015</b>	<b>L.0005</b>	<b>.09</b>	<b>.001</b>	<b>58.</b>	<b>2.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.0009*</b>		<b>.05*</b>	<b>.001*</b>	<b>56.</b>	<b>1.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.0004*</b>		<b>.01*</b>	<b>.000*</b>	<b>3.</b>	<b>1.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.005</b>	<b>.0006</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>56.</b>	<b>1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.005</b>	<b>.0008</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>56.</b>	<b>1.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.005</b>	<b>.001</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>58.</b>	<b>2.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>								<b>90<sup>e</sup></b>

SECONDARY CODE

03L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB BASIN

STATION 01CB07ED0006 LAT 55 D 10 M 0 S LONG 124 D 33 M 0 S

ITEM 10 401200 6114200  
JUN 21 1977 TO/A OCT 19 1977CHUCHI LAKE AT MIDDLE OF MAIN REACH  
BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
	SUBM ID	USIE/CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L		
SAMPLES(FLAGS)	0301	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	3(0)	ECHANTILLONS(IND.)
LOW		66.	29.2	.2	7.5	32.4	8.9	1.7	.1	MINIMUM
HIGH		69.	33.2	.5	7.9	34.6	10.2	2.	.1	MAXIMUM
AVERAGE		68.	31.9	.4		33.5	9.70	1.9	.1	MOYENNE
STD.DEV.		1.	1.9	.1		1.0	.57	.2	.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		67.	30.8	.3	7.7	32.7	9.30	1.7		25 <sup>e</sup>
MEDIAN 50TH		68.	32.7	.4	7.8	33.6	9.85	1.9	.1	50 <sup>e</sup> MEDIANE
75TH		69.	33.0	.5	7.8	34.4	10.10	2.0		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			03E							CODE DE SECOURS

		07103L NITRATE & NITRITE DISSOLVED NO3 MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07552E NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	
SAMPLES(FLAGS)	0301	4(3)	4(4)	4(3)	3(0)	4(0)	3(0)	4(4)	4(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	.09	.007	.1	L.003	.005	MINIMUM
HIGH		.03	L.005	.03	.12	.015	.16	L.003	.007	MAXIMUM
AVERAGE		.02*		.022*	.11	.011	.13		.006	MOYENNE
STD.DEV.		.01*		.005*	.02	.003	.03		.001	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.02	L.005	L.020		.008		L.003	.005	25 <sup>e</sup>
MEDIAN 50TH		L.02	L.005	L.020	.12	.010	.13	L.003	.006	50 <sup>e</sup> MEDIANE
75TH		.02*	L.005	.025*		.013		L.003	.007	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	12002E MAGNESIUM TOTAL MG MG/L	24002E CHROMIUM TOTAL CR MG/L	25004E MANGANESE TOTAL MN MG/L	26004L IRON TOTAL FE MG/L	28007L NICKEL TOTAL NI MG/L	29004L COPPER TOTAL CU MG/L	
SAMPLES(FLAGS)	0301	4(0)	4(0)	4(0)	4(3)	4(3)	4(1)	4(4)	4(3)	ECHANTILLONS(IND.)
LOW		5.	5.	1.7	L.005	L.02	L.1	L.01	L.001	MINIMUM
HIGH		7.	7.	2.	.018	.02	.1	L.01	.001	MAXIMUM
AVERAGE		5.5	6.3	1.9	.008*	.02*	.10*		.001*	MOYENNE
STD.DEV.		1.0	1.0	.2	.007*	.00*	.00*		.000*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		5.0	5.5	1.7	L.005	L.02	.10*	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH		5.0	6.5	1.9	L.005	L.02	.10	L.010	L.001	50 <sup>e</sup> MEDIANE
75TH		6.0	7.0	2.0	.011*	.02*	.10	L.010	.001*	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS



MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **01CB07ED0006** LAT. **55 D 10 M 0 S** LONG. **124 D 33 M 0 S**

UTM **10 401200E 6114200 N**  
JUN 21, 1977 TO/A OCT 19, 1977

CHUCHI LAKE AT MIDDLE OF MAIN REACH,  
BRITISH COLUMBIA

	30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS) 0301	4(4)	4(2)	4(4)	4(2)	4(4)	4(0)	4(1)	ECHANTILLONS(IND.)
LOW	L.005	L.0005	L.0005	L.05	L.001	52.	L1.	MINIMUM
HIGH	L.005	.0006	L.0005	1.4	L.001	60.	2.	MAXIMUM
AVERAGE		.0005*		.39*		56.	1.*	MOYENNE
STD.DEV.		.0001*		.67*		3.	1.*	ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH	L.005	L.0005	L.0005	L.05	L.001	53.	1.*	25 <sup>e</sup>
MEDIAN 50TH	L.005	.0005*	L.0005	.06*	L.001	55.	1.	50 <sup>e</sup> MEDIANE
75TH	L.005	.0006	L.0005	.74	L.001	58.	2.	75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE			03L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## PEACE RIVER SUB BASIN

STATION 01CB07ED0007 LAT. 55 D 12 M 0 S LONG. 124 D 28 M 0 S

UTM 10 406600E 6117800 N  
JUN 21 1977 TO/A OCT 19 1977CHUCHI LAKE AT EASTERN END OF  
MAIN REACH BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
	SUBM ID	USIE CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L		
SAMPLES(FLAGS)	0301	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW		66.	28.6	.2	7.6	32.3	8.8	1.6	.1	MINIMUM
HIGH		69.	33.2	.6	7.9	34.4	10.	2.	.2	MAXIMUM
AVERAGE		67.	31.5	.4		33.5	9.58	1.8	.1	MOYENNE
STD.DEV.		1.	2.0	.2		.9	.57	.2	.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		66.	30.3	.3	7.7	32.7	9.15	1.7	.1	25 <sup>e</sup>
MEDIAN 50TH		67.	32.2	.4	7.8	33.6	9.75	1.9	.1	50 <sup>e</sup> MEDIANE
75TH		69.	32.8	.5	7.8	34.2	10.00	2.0	.2	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			03E							CODE DE SECOURS

		07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	15406L PHOSPHORUS TOTAL P MG/L	
	SUBM ID	NO3 MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L			
SAMPLES(FLAGS)	0301	4(3)	4(4)	4(3)	4(0)	4(0)	4(0)	4(4)	4(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	.08	.001	.09	L.003	.004	MINIMUM
HIGH		.03	L.005	.03	.17	.013	.18	L.003	.006	MAXIMUM
AVERAGE		.02*		.022*	.13	.007	.14		.005	MOYENNE
STD.DEV.		.01*		.005*	.04	.005	.04		.001	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.02	L.005	L.020	.10	.003	.12	L.003	.004	25 <sup>e</sup>
MEDIAN 50TH		L.02	L.005	L.020	.13	.008	.15	L.003	.005	50 <sup>e</sup> MEDIANE
75TH		.02*	L.005	.025*	.16	.012	.17	L.003	.006	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
	SUBM ID	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS)	0301	4(0)	4(0)	4(0)	4(4)	4(3)	4(1)	4(3)	4(2)	ECHANTILLONS(IND.)
LOW		5.	5.	1.7	L.005	L.02	L.1	L.01	L.001	MINIMUM
HIGH		7.	7.	2.	L.005	.02	1.1	.01	.001	MAXIMUM
AVERAGE		6.0	6.3	1.9		.02*	.35*	.010*	.001*	MOYENNE
STD.DEV.		1.2	1.0	.2		.00*	.50*	.000*	.000*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		5.0	5.5	1.7	L.005	L.02	.10*	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH		6.0	6.5	1.9	L.005	L.02	.10	L.010	.001*	50 <sup>e</sup> MEDIANE
75TH		7.0	7.0	2.0	L.005	.02*	.60	.010*	.001	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## PEACE RIVER SUB-BASIN

STATION **01CB07ED0007** LAT. **55 D 12 M 0 S** LONG. **124 D 28 M 0 S**UTM **10 406600E 6117800 N**  
JUN 21, 1977 TO/A OCT 19, 1977CHUCHI LAKE AT EASTERN END OF  
MAIN REACH, BRITISH COLUMBIA

	30003L ZINC TOTAL ZN MG/L	42001E MOLYBDENUM TOTAL MO MG/L	48002L CADMIUM TOTAL CD MG/L	80013E MERCURY TOTAL HG UG/L	82004L LEAD TOTAL PB MG/L	10471L RESIDUE TOTAL MG/L	10402L RESIDUE NONFILTR. MG/L	
<b>SAMPLES(FLAGS)</b> 0301	4(4)	4(2)	4(4)	4(2)	4(4)	4(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>50.</b>	<b>1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.005</b>	<b>.0009</b>	<b>L.0005</b>	<b>.62</b>	<b>L.001</b>	<b>58.</b>	<b>1.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.0006*</b>		<b>.19*</b>		<b>56.</b>	<b>1.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.0002*</b>		<b>.28*</b>		<b>4.</b>	<b>0.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>54.</b>	<b>1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.005</b>	<b>.0005*</b>	<b>L.0005</b>	<b>.05*</b>	<b>L.001</b>	<b>58.</b>	<b>1.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.005</b>	<b>.0008</b>	<b>L.0005</b>	<b>.34</b>	<b>L.001</b>	<b>58.</b>	<b>1.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>								<b>90<sup>e</sup></b>

SECONDARY CODE

03L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
PEACE RIVER SUB-BASIN

STATION 01CB07ED0008 LAT. 55 D 9 M 0 S LONG. 124 D 22 M 0 S

UTM 10 413000E 6112200 N  
JUN 21 1977 TO/A OCT 19 1977

CHUCHI LAKE EASTERN BAY NEAR ISLAND  
BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	10603L HARDNESS TOTAL	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	20103L CALCIUM DISSOLVED	12102E MAGNESIUM DISSOLVED	07001E NITROGEN TOTAL KJELDAHL N MG/L	
	SUBM ID	USIE/CM	CACO3 MG/L	JTU	PH UNITS	CACO3 MG/L	CA MG/L	MG MG/L		
SAMPLES(FLAGS)	0301	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW		70.	31.1	.3	7.6	34.	9.8	1.6	.1	MINIMUM
HIGH		76.	36.6	.7	7.8	37.9	11.2	2.1	.2	MAXIMUM
AVERAGE		72.	34.0	.5		35.6	10.53	1.9	.1	MOYENNE
STD.DEV.		3.	2.3	.2		1.7	.68	.2	.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		70.	32.3	.4	7.7	34.4	9.95	1.7	.1	25 <sup>e</sup>
MEDIAN 50TH		71.	34.2	.5	7.8	35.3	10.55	1.9	.1	50 <sup>e</sup> MEDIANE
75TH		74.	35.7	.7	7.8	36.8	11.10	2.0	.1	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			03E							CODE DE SECOURS

		07103L NITRATE & NITRITE DISSOLVED	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07552E NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	15406L PHOSPHORUS TOTAL	
	SUBM ID	NO3 MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	P MG/L	
SAMPLES(FLAGS)	0301	4(4)	4(4)	4(4)	4(0)	4(0)	4(0)	4(4)	4(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.02	.06	.008	.07	L.003	.006	MINIMUM
HIGH		L.02	L.005	L.02	.15	.015	.16	L.003	.009	MAXIMUM
AVERAGE					.11	.012	.12		.008	MOYENNE
STD.DEV.					.04	.003	.04		.002	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.02	L.005	L.020	.08	.009	.09	L.003	.007	25 <sup>e</sup>
MEDIAN 50TH		L.02	L.005	L.020	.11	.012	.12	L.003	.008	50 <sup>e</sup> MEDIANE
75TH		L.02	L.005	L.020	.14	.014	.15	L.003	.009	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	12002E MAGNESIUM TOTAL	24002E CHROMIUM TOTAL	25004E MANGANESE TOTAL	26004L IRON TOTAL	28007L NICKEL TOTAL	29004L COPPER TOTAL	
	SUBM ID	C MG/L	C MG/L	MG MG/L	CR MG/L	MN MG/L	FE MG/L	NI MG/L	CU MG/L	
SAMPLES(FLAGS)	0301	4(0)	4(0)	4(0)	3(3)	3(3)	3(1)	3(2)	3(2)	ECHANTILLONS(IND.)
LOW		5.	6.	1.8	L.005	L.02	L.1	L.01	L.001	MINIMUM
HIGH		6.	8.	7.5	L.005	L.02	.1	.01	.001	MAXIMUM
AVERAGE		5.3	7.0	3.3			.10*	.010*	.001*	MOYENNE
STD.DEV.		.5	.8	2.8			.00*	.000*	.000*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		5.0	6.5	1.9						25 <sup>e</sup>
MEDIAN 50TH		5.0	7.0	2.0	L.005	L.02	.1	L.01	L.001	50 <sup>e</sup> MEDIANE
75TH		5.5	7.5	4.8						75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				02L						CODE DE SECOURS

MACKENZIE RIVER BASIN 1960-79  
PEACE RIVER SUB-BASIN

STATION **01CB07ED0008** LAT. **55 D 9 M 0 S** LONG. **124 D 22 M 0 S**

UTM **10 413000E 6112200 N**  
JUN 21, 1977 TO/A OCT 19, 1977

CHUCHI LAKE EASTERN BAY NEAR ISLAND,  
BRITISH COLUMBIA

	30003L	42001E	48002L	80013E	82004L	10471L	10402L	
	ZINC	MOLYBDENUM	CADMIUM	MERCURY	LEAD	RESIDUE	RESIDUE	
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	NONFILTR.	
SUBM	ZN	MO	CD	HG	PB			
ID	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0301	3(2)	3(2)	3(3)	4(4)	3(3)	4(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>52.</b>	<b>1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.005</b>	<b>.0005</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>62.</b>	<b>2.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.005*</b>	<b>.0005*</b>				<b>59.</b>	<b>1.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.000*</b>	<b>.0000*</b>				<b>5.</b>	<b>1.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				<b>L.05</b>		<b>55.</b>	<b>1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.005</b>	<b>L.0005</b>	<b>L.0005</b>	<b>L.05</b>	<b>L.001</b>	<b>60.</b>	<b>1.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				<b>L.05</b>		<b>62.</b>	<b>2.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>								<b>90<sup>e</sup></b>

SECONDARY CODE

03L

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

CODE DE SECOURS



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

STATION 01CB07EE0001 LAT. 55 D 19 M 0 S LONG. 124 D 9 M 0 S

UTM 10 427000E 6130400 N  
NOV 08 1976 TO/A NOV 17 1977WILLISTON LAKE AT MACKENZIE EFFLUENT  
DISCHARGE BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	30210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	8(0)	6(0)		5(0)	8(0)	6(0)		ECHANTILLONS(IND.)
LOW		78.	36.		.8	7.6	34.9		MINIMUM
HIGH		161.	67.7		10.	8.5	74.1		MAXIMUM
AVERAGE		124.	52.5		5.3		59.1		MOYENNE
STD.DEV.		32.	13.8		4.4		14.2		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		94.	37.4		2.2	7.8	50.8		25 <sup>e</sup>
MEDIAN 50TH		133.	55.7		3.4	7.9	63.4		50 <sup>e</sup> MEDIANE
75TH		151.	62.7		10.	8.1	68.2		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			Q3E						CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301		6(0)	6(0)	2(1)	2(1)			ECHANTILLONS(IND.)
LOW			12.6	1.1	Q1.	41.			MINIMUM
HIGH			23.	2.5	1.	Q61.			MAXIMUM
AVERAGE			17.93	1.9	1.*	51.*			MOYENNE
STD.DEV.			4.51	.6	0.*	14.*			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			13	1.2					25 <sup>e</sup>
MEDIAN 50TH			18.80	2.0	1.	51.			50 <sup>e</sup> MEDIANE
75TH			21.4	2.5					75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			Q1.	Q2E					CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301	8(0)	8(3)	8(7)	8(3)	8(0)	8(0)	8(3)	ECHANTILLONS(IND.)
LOW		.2	L.02	L.005	L.02	.2	.19	L.00	MINIMUM
HIGH		.4	.31	.01	.31	.4	.59	.04	MAXIMUM
AVERAGE		.3	.153*	.006*	.151*	.2	.43	.02*	MOYENNE
STD.DEV.		.1	.118*	.002*	.117*	1	.17	.02*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.2	L.020	L.005	L.020	.2	.25	L.00	25 <sup>e</sup>
MEDIAN 50TH		.3	.185	L.005	.185	.2	.52	.02	50 <sup>e</sup> MEDIANE
75TH		.4	.240	L.005	.235	.3	.57	.03	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979  
PEACE RIVER SUB-BASIN

STATION **01CB07EE0001** LAT. **55 D 19 M 0 S** LONG. **124 D 9 M 0 S**

UTM **10 427000E 6130400 N**  
NOV 08, 1976 TO/À NOV 17, 1977

WILLISTON LAKE AT MACKENZIE EFFLUENT  
DISCHARGE, BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b> 0301	<b>8(0)</b>		<b>6(0)</b>	<b>1(0)</b>					<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.013</b>		<b>3.</b>	<b>18.</b>					<b>MINIMUM</b>
<b>HIGH</b>	<b>.063</b>		<b>7.</b>	<b>18.</b>					<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.037</b>		<b>4.3</b>						<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.020</b>		<b>1.8</b>						<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.018</b>		<b>3.</b>						<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.038</b>		<b>3.5</b>						<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.054</b>		<b>6.</b>						<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	06L								CODE DE SECOURS

	26102L IRON DISSOLVED FE	26002L IRON TOTAL FE	28001L NICKEL TOTAL NI	29105L COPPER DISSOLVED CU	30104L ZINC DISSOLVED ZN	30004L ZINC TOTAL ZN	82103L LEAD DISSOLVED PB	80111L MERCURY DISSOLVED HG	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	
<b>SAMPLES(FLAGS)</b> 0301		<b>1(0)</b>							<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.9</b>							<b>MINIMUM</b>
<b>HIGH</b>		<b>.9</b>							<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>									<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		04L							CODE DE SECOURS

	80011L MERCURY TOTAL HG	06551L TANNIN AND LIGNIN LIG.SULPH. MG/L	06716L CHLORO- PHYLL A MG/L	10701L SURFACT. N-ALKYL SULPHNTS. LAS MG/L	10402L RESIDUE NONFILTR. MG/L	10471L RESIDUE TOTAL MG/L	36010E COLIFORMS FECAL MF NO/ML	36000E COLIFORMS TOTAL MPN NO/ML	
SUBM ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	NO/ML	NO/ML	
<b>SAMPLES(FLAGS)</b> 0301					<b>8(0)</b>	<b>8(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					<b>2.</b>	<b>72.</b>	<b>2.</b>	<b>33.</b>	<b>MINIMUM</b>
<b>HIGH</b>					<b>39.</b>	<b>124.</b>	<b>170.</b>	<b>790.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>					<b>16.1</b>	<b>94.</b>	<b>64.</b>	<b>331.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>					<b>13.8</b>	<b>17.</b>	<b>92.</b>	<b>403.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>5.5</b>	<b>80.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					<b>10.5</b>	<b>93.</b>	<b>20.</b>	<b>170.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>28.0</b>	<b>105.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

STATION 01CB07FC0002 LAT. 56 D 17 M 30 S LONG. 120 D 57 M 30 S

UTM 10 626400E 6240200 N  
MAY 30, 1974 TO A MAR 23, 1976CHARLIE LAKE NEAR OUTLET NEAR  
FORT ST JOHN BRITISH COLUMBIA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0301	12(0)		11(0)	4(0)	11(0)	11(0)	11(0)		ECHANTILLONS(IND.)
LOW		114.		56.6	20.	.5	7.3	58.5		MINIMUM
HIGH		177.		72.2	30.	4.2	9.	74.3		MAXIMUM
AVERAGE		148.		62.5	25.	2.9		63.4		MOYENNE
STD.DEV.		16.		4.9	6.	1.2		4.9		ECART-TYPE
PERCNT:10TH		142.		58.		1.5	7.5	60		10 <sup>e</sup> PERCNT
25TH		143.		58.4	20.	1.8	7.6	60.5		25 <sup>e</sup>
MEDIAN 50TH		147.		61.1	25.	3.3	7.8	61.5		50 <sup>e</sup> MEDIANE
75TH		150.		64	30.	3.8	7.9	63.8		75 <sup>e</sup>
90TH		171.		70.2		3.9	8.	71		90 <sup>e</sup>
SECONDARY CODE				02E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0301			12(0)	12(0)	8(5)	8(5)			ECHANTILLONS(IND.)
LOW				14.9	4.7	0.	60.			MINIMUM
HIGH				19.2	5.9	8.	Q89.			MAXIMUM
AVERAGE				16.38	5.2	1.*	75.*			MOYENNE
STD.DEV.				1.33	.4	3.*	9.*			ECART-TYPE
PERCNT:10TH				15.3	4.8					10 <sup>e</sup> PERCNT
25TH				15.45	5.0	0.	72.			25 <sup>e</sup>
MEDIAN 50TH				16.00	5.2	1.	75.			50 <sup>e</sup> MEDIANE
75TH				16.70	5.4	1.	81.			75 <sup>e</sup>
90TH				18.7	5.7					90 <sup>e</sup>
SECONDARY CODE					02E					CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07205L NITROGEN DISSOLVED NITRITE	07301E NITROGEN DISSOLVED NITRATE	07401E NITROGEN TOTAL ORGANIC	07554L NITROGEN DISSOLVED AMMONIA	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED ORTHO	
	SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	PO4 MG/L	
SAMPLES(FLAGS)	0301	10(0)	5(2)	7(6)	7(2)	11(0)		4(0)	4(0)	ECHANTILLONS(IND.)
LOW		.7	L.02	L.005	L.02	.7		.85	.01	MINIMUM
HIGH		2.	.12	.005	.19	1.9		1.04	.05	MAXIMUM
AVERAGE		1.0	.048*	.005*	.074*	.9		.94	.04	MOYENNE
STD.DEV.		.4	.044*	.000*	.065*	.3		.08	.02	ECART-TYPE
PERCNT:10TH		.7				7				10 <sup>e</sup> PERCNT
25TH		.8	L.02	L.005	L.02	.7		.89	.02	25 <sup>e</sup>
MEDIAN 50TH		.9	.02	L.005	.05	.9		.94	.04	50 <sup>e</sup> MEDIANE
75TH		1.	.06	L.005	.12	1.		1.00	.05	75 <sup>e</sup>
90TH		1.6				1.1				90 <sup>e</sup>
SECONDARY CODE		01L				01L				CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **01CB07FC0002** LAT. **56 D 17 M 30 S** LONG. **120 D 57 M 30 S**UTM **10 626400 E 6240200 N**  
MAY 30, 1974 TO/A MAR 23, 1976CHARLIE LAKE NEAR OUTLET, NEAR  
FORT ST JOHN, BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
	SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>12(0)</b>		<b>12(0)</b>	<b>8(0)</b>				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.028</b>		<b>11.</b>	<b>6.2</b>				<b>MINIMUM</b>
<b>HIGH</b>		<b>.148</b>		<b>21.</b>	<b>15.2</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.076</b>		<b>14.9</b>	<b>10.3</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.042</b>		<b>2.8</b>	<b>2.7</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.032</b>		<b>12.</b>					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.037</b>		<b>13.0</b>	<b>8.9</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.076</b>		<b>14.5</b>	<b>10.0</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.100</b>		<b>16.0</b>	<b>11.5</b>				<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.143</b>		<b>19.</b>					<b>90<sup>e</sup></b>
SECONDARY CODE		06L		01E					CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
	SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>				<b>12(0)</b>	<b>7(0)</b>			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					<b>1.</b>	<b>110.</b>			<b>MINIMUM</b>
<b>HIGH</b>					<b>9.</b>	<b>140.</b>			<b>MAXIMUM</b>
<b>AVERAGE</b>					<b>3.9</b>	<b>121.</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>					<b>2.5</b>	<b>10.</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					<b>1.</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>2.0</b>	<b>114.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					<b>3.5</b>	<b>116.</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>5.5</b>	<b>126.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>					<b>7.</b>				<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 01CB07FC0003 LAT 56° 18' 35" S LONG 120° 58' 40" W

UTM 10 625000E 6242200N  
MAY 30 1974 TO/A MAR 23 1976CHARLIE LAKE AT SOUTH END OF LAKE 150  
FT FROM WEST SHORE NEAR FORT ST JOHN

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE CM								
SAMPLES(FLAGS) 0301	12(0)		11(0)	4(0)	11(0)	11(0)	12(0)		ECHANTILLONS(IND.)
LOW	139.		55.8	20.	.9	7.6	58.5		MINIMUM
HIGH	183.		74.1	30.	4.7	8.9	76.5		MAXIMUM
AVERAGE	152.		62.2	25.	2.7		63.0		MOYENNE
STD.DEV.	12.		5.4	6.	1.4		5.3		ECART-TYPE
PERCNT:10TH	141.		58.1		1.1	7.6	59.7		10 <sup>e</sup> PERCNT
25TH	145.		58.6	20.	1.5	7.7	59.8		25 <sup>e</sup>
MEDIAN 50TH	148.		60.9	25.	2.4	7.9	60.5		50 <sup>e</sup> MEDIANE
75TH	156.		63.5	30.	4.3	8.1	63.8		75 <sup>e</sup>
90TH	165.		69.7		4.5	8.1	69.9		90 <sup>e</sup>
SECONDARY CODE			03E						CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301			12(0)	12(0)	8(5)	8(5)			ECHANTILLONS(IND.)
LOW			14.6	4.7	0.	61.			MINIMUM
HIGH			19.8	6.	7.	Q92.			MAXIMUM
AVERAGE			16.37	5.2	1.*	76.*			MOYENNE
STD.DEV.			1.47	.4	2.*	9.*			ECART-TYPE
PERCNT:10TH			15.2	4.9					10 <sup>e</sup> PERCNT
25TH			15.50	5.0	0.	72.			25 <sup>e</sup>
MEDIAN 50TH			15.90	5.2	1.	75.			50 <sup>e</sup> MEDIANE
75TH			16.75	5.2	1.	80.			75 <sup>e</sup>
90TH			18.5	5.7					90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301	10(0)	5(2)	6(6)	7(2)	10(0)		3(0)	5(0)	ECHANTILLONS(IND.)
LOW	.7	L.02	L.005	L.02	.6		.83	.01	MINIMUM
HIGH	4.	.12	L.005	.21	4.0		1.4	.05	MAXIMUM
AVERAGE	1.2	.048*		.079*	1.2		1.05	.03	MOYENNE
STD.DEV.	1.0	.041*		.070*	1.0		.30	.02	ECART-TYPE
PERCNT:10TH	.7				.7				10 <sup>e</sup> PERCNT
25TH	.9	L.02	L.005	L.02	.9			.01	25 <sup>e</sup>
MEDIAN 50TH	.9	.04	L.005	.04	.9		.93	.04	50 <sup>e</sup> MEDIANE
75TH	1.1	.04	L.005	.12	1.			.05	75 <sup>e</sup>
90TH	2.6				2.6				90 <sup>e</sup>
SECONDARY CODE	01L				01L				CODE DE SECOURS



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **01CB07FC0003** LAT. **56 D 18 M 35 S** LONG. **120 D 58 M 40 S**UTM **10 625000E 6242200 N**  
MAY 30, 1974 TO/A MAR 23, 1976CHARLIE LAKE AT SOUTH END OF LAKE 150  
FT FROM WEST SHORE NEAR FORT ST JOHN

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b> 0301	12(0)		10(0)		9(0)				<b>ECHANTILLONS(IND.)</b>
LOW	.031		12.		7.8				<b>MINIMUM</b>
HIGH	.296		18.		14.				<b>MAXIMUM</b>
AVERAGE	.090		15.1		10.1				<b>MOYENNE</b>
STD.DEV.	.072		1.9		2.2				<b>ECART-TYPE</b>
PERCNT:10TH	.033		12.5						<b>10<sup>e</sup> PERCNT</b>
25TH	.039		14.		8.5				<b>25<sup>e</sup></b>
MEDIAN 50TH	.080		15.0		9.3				<b>50<sup>e</sup> MEDIANE</b>
75TH	.097		17.		10.5				<b>75<sup>e</sup></b>
90TH	.13		17.5						<b>90<sup>e</sup></b>
SECONDARY CODE	06L		01E						<b>CODE DE SECOURS</b>

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b> 0301					12(0)	6(0)			<b>ECHANTILLONS(IND.)</b>
LOW					1.	112.			<b>MINIMUM</b>
HIGH					11.	142.			<b>MAXIMUM</b>
AVERAGE					4.5	123.			<b>MOYENNE</b>
STD.DEV.					3.1	10.			<b>ECART-TYPE</b>
PERCNT:10TH					1.				<b>10<sup>e</sup> PERCNT</b>
25TH					2.5	120.			<b>25<sup>e</sup></b>
MEDIAN 50TH					3.5	122.			<b>50<sup>e</sup> MEDIANE</b>
75TH					7.0	122.			<b>75<sup>e</sup></b>
90TH					8.				<b>90<sup>e</sup></b>
SECONDARY CODE									<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 01CB07FC0004 LAT. 56 D 18 M 50 S LONG. 120 D 57 M 50 S

UTM 10 626000E 6242600 N  
MAY 30 1974 TO/A MAR 23 1976CHARLIE LAKE AT SOUTH END OF LAKE 150  
FT FROM EAST SHORE NEAR FORT ST JOHN

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	11(0)		11(0)	4(0)	10(0)	11(0)	11(0)		ECHANTILLONS(IND.)
LOW		141.		.1	20.	.6	7.3	59.		MINIMUM
HIGH		182.		72.9	30.	8.9	9.	76.		MAXIMUM
AVERAGE		149.		56.0	25.	3.5		62.7		MOYENNE
STD.DEV.		11.		19.0	6.	2.2		4.7		ECART-TYPE
PERCNT:10TH		143.		57.3		1.2	7.4	60.		10 <sup>e</sup> PERCNT
25TH		143.		57.7	20.	2.	7.6	60.		25 <sup>e</sup>
MEDIAN 50TH		146.		60.5	25.	3.5	7.9	61.1		50 <sup>e</sup> MEDIANE
75TH		148.		62.4	30.	4.	8.	63.8		75 <sup>e</sup>
90TH		152.		63.5		6.5	8.2	63.9		90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301			11(0)	11(0)	7(4)	7(4)			ECHANTILLONS(IND.)
LOW				15.2	4.7	0.	58.			MINIMUM
HIGH				19.3	6.	8.	Q91.			MAXIMUM
AVERAGE				16.20	5.2	2.	74.			MOYENNE
STD.DEV.				1.19	.3	3.	10.			ECART-TYPE
PERCNT:10TH				15.2	4.8					10 <sup>e</sup> PERCNT
25TH				15.3	4.9	0.	Q72.			25 <sup>e</sup>
MEDIAN 50TH				16.	5.2	Q1.	74.			50 <sup>e</sup> MEDIANE
75TH				16.7	5.3	Q1.	Q77.			75 <sup>e</sup>
90TH				16.8	5.3					90 <sup>e</sup>
SECONDARY CODE					02E					CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301	9(0)	5(2)	7(7)	7(3)	10(0)		4(0)	4(0)	ECHANTILLONS(IND.)
LOW		.5	L.02	L.005	L.02	.5		.72	.01	MINIMUM
HIGH		2.	.13	L.005	.27	2.0		1.16	.05	MAXIMUM
AVERAGE		1.0	.044*		.084*	1.0		.97	.04	MOYENNE
STD.DEV.		.4	.048*		.093*	.4		.18	.02	ECART-TYPE
PERCNT:10TH						.6				10 <sup>e</sup> PERCNT
25TH		.8	L.02	L.005	L.02	.8		.85	.03	25 <sup>e</sup>
MEDIAN 50TH		.9	.02	L.005	.03	.9		1.00	.05	50 <sup>e</sup> MEDIANE
75TH		1.1	.03	L.005	.13	1.		1.09	.05	75 <sup>e</sup>
90TH						1.5				90 <sup>e</sup>
SECONDARY CODE		01L				01L				CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **01CB07FC0004** LAT. **56 D 18 M 50 S** LONG. **120 D 57 M 50 S**UTM **10 626000E 6242600 N**  
MAY 30, 1974 TO/A MAR 23, 1976CHARLIE LAKE AT SOUTH END OF LAKE 150  
FT FROM EAST SHORE NEAR FORT ST JOHN

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SiO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS) 0301</b>	<b>11(0)</b>		<b>11(0)</b>		<b>8(0)</b>				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.03</b>		<b>11.</b>		<b>6.2</b>				<b>MINIMUM</b>
<b>HIGH</b>	<b>.137</b>		<b>17.</b>		<b>13.1</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.078</b>		<b>13.9</b>		<b>9.1</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.033</b>		<b>1.7</b>		<b>2.2</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.035</b>		<b>12.</b>						<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.052</b>		<b>13.</b>		<b>7.5</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.077</b>		<b>14.</b>		<b>9.1</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.103</b>		<b>15.</b>		<b>10.3</b>				<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.12</b>		<b>16.</b>						<b>90<sup>e</sup></b>
SECONDARY CODE	06L		01E						CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS.	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	LAS MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS) 0301</b>			<b>1(0)</b>		<b>10(0)</b>	<b>7(0)</b>			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>.0077</b>		<b>1.</b>	<b>114.</b>			<b>MINIMUM</b>
<b>HIGH</b>			<b>.0077</b>		<b>10.</b>	<b>132.</b>			<b>MAXIMUM</b>
<b>AVERAGE</b>					<b>4.0</b>	<b>119.</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>					<b>2.9</b>	<b>7.</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					<b>1.5</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>2.</b>	<b>114.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					<b>3.0</b>	<b>120.</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>5.</b>	<b>122.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>					<b>9.0</b>				<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION 01CB07FC0005 LAT. 56 D 20 M 0 S LONG. 120 D 59 M 15 S

UTM 10 624400E 6244800 N  
MAY 30 1974 TO A MAR 23 1976CHARLIE LAKE NEAR MIDDLE OF LAKE  
FORT ST JOHN BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	MG/L	PH UNITS	
SAMPLES(FLAGS) 0301	11(0)		10(0)	4(0)	9(0)	11(0)	11(0)		ECHANTILLONS(IND.)
LOW	139.		57.7	20.	.8	7.4	58.5		MINIMUM
HIGH	178.		70.2	40.	8.3	9.	76.7		MAXIMUM
AVERAGE	149.		61.1	28.	4.0		62.4		MOYENNE
STD.DEV.	11.		3.8	10.	2.4		5.1		ECART-TYPE
PERCNT:10TH	140.		57.8			7.8	58.5		10 <sup>e</sup> PERCNT
25TH	142.		58.1	20.	2.1	7.8	59.5		25 <sup>e</sup>
MEDIAN 50TH	147.		59.9	25.	3.7	7.9	61.3		50 <sup>e</sup> MEDIANE
75TH	153.		63.3	35.	4.8	8.6	63.5		75 <sup>e</sup>
90TH	153.		66.7			8.9	64.2		90 <sup>e</sup>
SECONDARY CODE			03E						CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS) 0301			11(0)	11(0)	9(4)	9(4)			ECHANTILLONS(IND.)
LOW			12.2	4.6	0.	61.			MINIMUM
HIGH			19.2	5.9	7.	Q92.			MAXIMUM
AVERAGE			15.91	5.1	2.	73.			MOYENNE
STD.DEV.			1.66	.3	3.	9.			ECART-TYPE
PERCNT:10TH			15.2	4.8					10 <sup>e</sup> PERCNT
25TH			15.5	4.9	Q1.	69.			25 <sup>e</sup>
MEDIAN 50TH			15.6	5.1	Q1.	71.			50 <sup>e</sup> MEDIANE
75TH			16.7	5.3	4.	Q75.			75 <sup>e</sup>
90TH			16.8	5.3					90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07205L NITROGEN DISSOLVED	07301E NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07554L NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	
SUBM ID	KJELDAHL N MG/L	NO3 & NO2 N MG/L	NITRITE N MG/L	NITRATE N MG/L	ORGANIC N MG/L	AMMONIA N MG/L	N MG/L	ORTHOPHOSPHATE P MG/L	
SAMPLES(FLAGS) 0301	10(0)	5(4)	7(7)	7(4)	10(0)		4(0)	4(0)	ECHANTILLONS(IND.)
LOW	.9	L.02	L.005	L.02	.8		1.04	.01	MINIMUM
HIGH	5.	.15	L.005	.15	5.0		2.	.05	MAXIMUM
AVERAGE	1.5	.046*		.066*	1.5		1.41	.04	MOYENNE
STD.DEV.	1.3	.058*		.059*	1.3		.44	.02	ECART-TYPE
PERCNT:10TH	.9				.9				10 <sup>e</sup> PERCNT
25TH	1.	L.02	L.005	L.02	1.		1.07	.02	25 <sup>e</sup>
MEDIAN 50TH	1.1	L.02	L.005	L.02	1.1		1.30	.05	50 <sup>e</sup> MEDIANE
75TH	1.3	L.02	L.005	.13	1.2		1.75		75 <sup>e</sup>
90TH	3.5				3.5				90 <sup>e</sup>
SECONDARY CODE	01L				01L				CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **01CB07FC0005** LAT. **56 D 20 M 0 S** LONG. **120 D 59 M 15 S**UTM **10 624400E 6244800 N**  
MAY 30, 1974 TO/À MAR 23, 1976CHARLIE LAKE NEAR MIDDLE OF LAKE,  
FORT ST JOHN, BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
	P MG/L	SIO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b> 0301	11(0)		10(0)		8(0)				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.026		11.		6.4				<b>MINIMUM</b>
<b>HIGH</b>	.365		22.		12.4				<b>MAXIMUM</b>
<b>AVERAGE</b>	.103		15.2		9.5				<b>MOYENNE</b>
<b>STD.DEV.</b>	.094		3.4		1.9				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.032		11.5						<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.04		13.		8.4				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.086		14.5		9.2				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.119		16.		11.1				<b>75<sup>e</sup></b>
<b>90TH</b>	.131		21.0						<b>90<sup>e</sup></b>
SECONDARY CODE	06L		01E						CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b> 0301					11(0)	6(0)			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					1.	114.			<b>MINIMUM</b>
<b>HIGH</b>					27.	136.			<b>MAXIMUM</b>
<b>AVERAGE</b>					7.1	123.			<b>MOYENNE</b>
<b>STD.DEV.</b>					7.2	9.			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					2.				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					3.	116.			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					5.	121.			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					8.	132.			<b>75<sup>e</sup></b>
<b>90TH</b>					11.				<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

STATION 01CB07FC0006 LAT. 56 D 19M 55 S LONG. 120 D 57M 35 S

UTM 10 626200E 6244800 N  
MAY 30 1974 TO/A JUN 23 1976CHARLIE LAKE 150 FT FROM EAST SHORE  
FORT ST JOHN BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0301	12(0)	11(0)	4(0)	11(0)	11(0)	12(0)		ECHANTILLONS(IND.)
LOW		139.	56.9	20.	.7	7.4	59.		MINIMUM
HIGH		177.	71.6	30.	8.3	9.1	74.2		MAXIMUM
AVERAGE		150.	62.0	25.	3.6		62.9		MOYENNE
STD.DEV.		11.	4.4	6.	2.2		4.3		ECART-TYPE
PERCNT:10TH		142.	57.7		1.1	7.6	59.6		10 <sup>e</sup> PERCNT
25TH		144.	57.9	20.	2.2	7.7	60.0		25 <sup>e</sup>
MEDIAN 50TH		147.	61.2	25.	3.7	7.8	61.8		50 <sup>e</sup> MEDIANE
75TH		152.	63.3	30.	4.	8.4	63.6		75 <sup>e</sup>
90TH		164.	67.3		6.5	8.7	67.6		90 <sup>e</sup>

SECONDARY CODE

03E

CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0301		12(0)	12(0)	10(5)	10(5)			ECHANTILLONS(IND.)
LOW			15.1	4.6	0.	56.			MINIMUM
HIGH			19.1	5.8	9.	Q89.			MAXIMUM
AVERAGE			16.35	5.2	2.	74.			MOYENNE
STD.DEV.			1.23	.3	3.	9.			ECART-TYPE
PERCNT:10TH			15.2	4.8	0.	62.			10 <sup>e</sup> PERCNT
25TH			15.35	5.0	Q1.	Q71.			25 <sup>e</sup>
MEDIAN 50TH			16.15	5.2	1.	74.			50 <sup>e</sup> MEDIANE
75TH			16.65	5.3	2.	Q76.			75 <sup>e</sup>
90TH			18.2	5.5	6.	85.			90 <sup>e</sup>

SECONDARY CODE

02E

CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	0301	11(0)	5(3)	7(7)	11(0)		4(0)	4(0)	ECHANTILLONS(IND.)
LOW		.7	L.02	L.005	.7		.99	.01	MINIMUM
HIGH		2.	.16	L.005	.23	2.0	2.	.05	MAXIMUM
AVERAGE		1.2	.048	.081	1.1	1.34	1.34	.04	MOYENNE
STD.DEV.		.5	.063		.085	.4	.47	.02	ECART-TYPE
PERCNT:10TH		.8			.8				10 <sup>e</sup> PERCNT
25TH		.8	L.02	L.005	L.02	.8	1.01	.02	25 <sup>e</sup>
MEDIAN 50TH		1.0	L.02	L.005	.02	.9	1.19	.05	50 <sup>e</sup> MEDIANE
75TH		1.3	.02	L.005	.16	1.3	1.67	.05	75 <sup>e</sup>
90TH		2.			1.9				90 <sup>e</sup>

SECONDARY CODE

01L

01L

CODE DE SECOURS

MACKENZIE RIVER BASIN 1960-1979  
PEACE RIVER SUB-BASIN

STATION **01CB07FC0006** LAT. **56 D 19 M 55 S** LONG. **120 D 57 M 35 S**

UTM **10 626200E 6244800N**  
MAY 30, 1974 TO/À JUN 23, 1976

CHARLIE LAKE 150 FT FROM EAST SHORE,  
FORT ST JOHN, BRITISH COLUMBIA

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SIO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS) 0301</b>	<b>12(0)</b>		<b>12(0)</b>		<b>9(0)</b>				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.031</b>		<b>11.</b>		<b>6.4</b>				<b>MINIMUM</b>
<b>HIGH</b>	<b>.151</b>		<b>22.</b>		<b>13.8</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.086</b>		<b>15.2</b>		<b>10.0</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.048</b>		<b>2.7</b>		<b>2.6</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.032</b>		<b>13.</b>						<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.041</b>		<b>14.0</b>		<b>8.2</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.086</b>		<b>15.0</b>		<b>10.4</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.139</b>		<b>16.0</b>		<b>11.</b>				<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.149</b>		<b>17.</b>						<b>90<sup>e</sup></b>
SECONDARY CODE	06L		01E						CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS) 0301</b>					<b>12(0)</b>	<b>6(0)</b>			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					<b>2.</b>	<b>108.</b>			<b>MINIMUM</b>
<b>HIGH</b>					<b>12.</b>	<b>130.</b>			<b>MAXIMUM</b>
<b>AVERAGE</b>					<b>4.8</b>	<b>120.</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>					<b>3.1</b>	<b>8.</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					<b>2.</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>3.0</b>	<b>116.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					<b>4.0</b>	<b>118.</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>5.0</b>	<b>128.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>					<b>10.</b>				<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 01CB07FC0007 LAT. 56 D 20 M 10 S LONG. 121 D 0 M 10 S

UTM 10 623400E 6245000 N

MAY 30 1974 TO/A MAR 23 1976

CHARLIE LAKE 150 FT FROM WEST SHORE  
FORT ST JOHN BRITISH COLUMBIA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02021L COLOUR TRUE	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS
SAMPLES(FLAGS)	0301	12(0)		10(0)	5(0)	11(0)	12(0)	11(0)	ECHANTILLONS(IND.)
LOW		132.		56.4	20.	1.1	7.5	53.5	MINIMUM
HIGH		184.		71.6	60.	8.	8.6	79.	MAXIMUM
AVERAGE		149.		61.6	38.	4.0		62.7	MOYENNE
STD.DEV.		15.		5.3	20.	2.4		6.7	ECART-TYPE
PERCNT:10TH		132.		56.8		1.5	7.6	58.5	10 <sup>e</sup> PERCNT
25TH		142.		57.9	20.	1.9	7.7	58.8	25 <sup>e</sup>
MEDIAN 50TH		146.		59.6	30.	3.8	7.8	61.5	50 <sup>e</sup> MEDIANE
75TH		153.		63.5	60.	7.2	7.9	64.	75 <sup>e</sup>
90TH		168.		70.6		7.3	8.2	69.5	90 <sup>e</sup>
SECONDARY CODE				03E					CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG L
SAMPLES(FLAGS)	0301			12(0)	11(0)	8(5)	8(5)		ECHANTILLONS(IND.)
LOW				14.3	4.7	0.	Q71.		MINIMUM
HIGH				18.8	6.	3.	Q95.		MAXIMUM
AVERAGE				16.02	5.2	1.*	77.*		MOYENNE
STD.DEV.				1.51	.4	1.*	8.*		ECART-TYPE
PERCNT:10TH				14.5	4.9				10 <sup>e</sup> PERCNT
25TH				15.05	4.9	0.	71.		25 <sup>e</sup>
MEDIAN 50TH				15.50	5.2	1.	75.		50 <sup>e</sup> MEDIANE
75TH				16.75	5.3	1.	80.		75 <sup>e</sup>
90TH				18.8	5.5				90 <sup>e</sup>
SECONDARY CODE					02E				CODE DE SECOURS

	07001E NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07205L NITROGEN DISSOLVED	07301E NITROGEN DISSOLVED	07401E NITROGEN TOTAL	07554L NITROGEN DISSOLVED	07601E NITROGEN TOTAL	15254E PHOSPHATE DISSOLVED	
	SUBM ID	KJELDAHL N MG/L	NO3 & NO2 N MG/L	NITRITE N MG/L	NITRATE N MG/L	ORGANIC N MG/L	AMMONIA N MG/L	ORTHOPHOSPHATE PO4 MG L	
SAMPLES(FLAGS)	0301	10(0)	6(5)	8(8)	8(5)	11(0)		3(0)	4(0)
LOW		.8	L.02	L.005	L.02	.7		.78	.01
HIGH		2.	.16	L.005	.22	2.0		1.04	.05
AVERAGE		1.1	.043*		.072*	1.0		.94	.04
STD.DEV.		.5	.057*		.079*	.3		.14	.02
PERCNT:10TH		.8				.7			10 <sup>e</sup> PERCNT
25TH		.8	L.02	L.005	L.020	.8		.02	25 <sup>e</sup>
MEDIAN 50TH		1.0	L.020	L.005	L.020	1.		.04	50 <sup>e</sup> MEDIANE
75TH		1.1	L.02	L.005	.130	1.0		.05	75 <sup>e</sup>
90TH		2.0				1.2			90 <sup>e</sup>
SECONDARY CODE		01L				01L			CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **01CB07FC0007** LAT. **56 D 20 M 10 S** LONG. **121 D 0 M 10 S**UTM **10 623400E 6245000 N**  
MAY 30, 1974 TO/À MAR 23, 1976CHARLIE LAKE 150 FT FROM WEST SHORE,  
FORT ST JOHN, BRITISH COLUMBIA

		15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED CR	25104L MANGANESE DISSOLVED MN	25004L MANGANESE TOTAL MN	
	SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>12(0)</b>		<b>12(0)</b>		<b>8(0)</b>				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.042</b>		<b>11.</b>		<b>6.4</b>				<b>MINIMUM</b>
<b>HIGH</b>		<b>.172</b>		<b>23.</b>		<b>14.8</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.087</b>		<b>15.6</b>		<b>9.5</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.041</b>		<b>3.2</b>		<b>2.7</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.043</b>		<b>12.</b>						<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.056</b>		<b>14.0</b>		<b>7.8</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.080</b>		<b>15.0</b>		<b>8.8</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.110</b>		<b>17.5</b>		<b>10.9</b>				<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.144</b>		<b>18.</b>						<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>06L</b>		<b>01E</b>						<b>CODE DE SECOURS</b>

		80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
	SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO./ML	MPN NO./ML	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>					<b>12(0)</b>	<b>6(0)</b>			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>						<b>1.</b>	<b>108.</b>			<b>MINIMUM</b>
<b>HIGH</b>						<b>15.</b>	<b>138.</b>			<b>MAXIMUM</b>
<b>AVERAGE</b>						<b>5.8</b>	<b>121.</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>						<b>4.5</b>	<b>10.</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>						<b>2.</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						<b>3.0</b>	<b>116.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>						<b>4.0</b>	<b>120.</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						<b>7.0</b>	<b>126.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>						<b>14.</b>				<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## PEACE RIVER SUB BASIN

STATION 01CB07FC0008 LAT. 56 D 20 M 40 S LONG. 121 D 0 M 30 S

UTM 10 623000E 6246000 N  
MAY 30 1974 TO/A NOV 04 1975CHARLIE LAKE AT MIDDLE OF LAKE NEAR  
NORTH END NEAR FORT ST JOHN

	02041L SPECIFIC CONDUCT.	02020L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS) 0301	9(0)		8(0)	3(0)	8(0)	7(0)	9(0)		ECHANTILLONS(IND.)
LOW	133.		55.9	20.	1.2	7.6	55.5		MINIMUM
HIGH	153.		63.1	40.	9.	8.8	64.6		MAXIMUM
AVERAGE	145.		59.0	30.	4.7		60.2		MOYENNE
STD.DEV.	6.		2.3	10.	2.7		2.8		ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH	142.		57.5		2.3	7.8	58.5		25 <sup>e</sup>
MEDIAN 50TH	143.		58.3	30.	4.5	7.8	60.		50 <sup>e</sup> MEDIANE
75TH	151.		60.4		6.7	8.5	61.5		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			03E						CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301			9(0)	9(0)	7(2)	7(2)			ECHANTILLONS(IND.)
LOW			14.3	4.6	0.	66.			MINIMUM
HIGH			16.7	5.7	6.	Q76.			MAXIMUM
AVERAGE			15.54	5.1	2.*	71.*			MOYENNE
STD.DEV.			76	.3	2.*	4.*			ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH			15.1	4.9	0.	68.			25 <sup>e</sup>
MEDIAN 50TH			15.5	5.	Q1.	72.			50 <sup>e</sup> MEDIANE
75TH			15.8	5.2	4.	75.			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				02E					CODE DE SECOURS

	07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0301	8(0)	5(4)	6(6)	6(4)	8(0)		4(0)	3(0)	ECHANTILLONS(IND.)
LOW	.9	L.02	L.005	L.02	.8		1.	.01	MINIMUM
HIGH	3.	.17	L.005	.17	2.9		2.	.05	MAXIMUM
AVERAGE	1.5	.050*		.060*	1.4		1.28	.03	MOYENNE
STD.DEV.	.8	.067*		.065*	.7		.48	.03	ECART-TYPE
PERCENT:10TH									10 <sup>e</sup> PERCNT
25TH	1.0	L.02	L.005	L.02	.9		1.02		25 <sup>e</sup>
MEDIAN 50TH	1.0	L.02	L.005	L.020	1.0		1.07	.05	50 <sup>e</sup> MEDIANE
75TH	2.0	L.02	L.005	.11	1.9		1.54		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	01L				01L			54L	CODE DE SECOURS



## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **01CB07FC0008** LAT. **56 D 20 M 40 S** LONG. **121 D 0 M 30 S**UTM **10 623000E 6246000 N**  
MAY 30, 1974 TO/A NOV 04, 1975CHARLIE LAKE AT MIDDLE OF LAKE NEAR  
NORTH END, NEAR FORT ST JOHN

	15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	06151L CARBON DISSOLVED INORGANIC	08102F OXYGEN DISSOLVED DO	24052L CHROMIUM DISSOLVED	25104L MANGANESE DISSOLVED	25004L MANGANESE TOTAL	
SUBM ID	P MG/L	SIO2 MG/L	C MG/L	C MG/L	O2 MG/L	CR MG/L	MN MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b> 0301	9(0)		9(0)		6(0)				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.033</b>		<b>11.</b>		<b>7.</b>				<b>MINIMUM</b>
<b>HIGH</b>	<b>.196</b>		<b>45.</b>		<b>11.8</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.104</b>		<b>20.0</b>		<b>9.5</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.059</b>		<b>10.3</b>		<b>2.0</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.072</b>		<b>15.</b>		<b>7.8</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.086</b>		<b>15.</b>		<b>9.5</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.132</b>		<b>22.</b>		<b>11.2</b>				<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	06L		01E						CODE DE SECOURS

	80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b> 0301					8(0)	4(0)			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					<b>2.</b>	<b>7.</b>			<b>MINIMUM</b>
<b>HIGH</b>					<b>17.</b>	<b>122.</b>			<b>MAXIMUM</b>
<b>AVERAGE</b>					<b>6.1</b>	<b>90.</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>					<b>5.0</b>	<b>56.</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					<b>3.0</b>	<b>61.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					<b>4.0</b>	<b>116.</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					<b>8.0</b>	<b>120.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB BASIN

STATION 01CB07FC0009 LAT 56 D 21 M 50 S LONG 121 D 2 M 15 S

UTM 10 621200 6248000  
JUN 19 1974 TO/A MAR 23 1976CHARLIE LAKE AT NORTH END OF LAKE ONE  
HALF MILE FROM INLET, FORT ST JOHN

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02021L COLOUR TRUE REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE -CM								ECHANTILLONS(IND.)
LOW	0301	10(0)		10(0)	4(0)	10(0)	11(0)	11(0)		MINIMUM
HIGH		139.		56.6	15.	1.6	7.4	57.8		MAXIMUM
AVERAGE		166.		71.1	30.	15.	9.3	75.4		MOYENNE
STD.DEV.		8.		61.7	24.	5.4		62.6		ECART-TYPE
				4.9	7.	4.2		5.2		
PERCNT:10TH		141.		56.6		1.8	7.6	58.		10 <sup>e</sup> PERCNT
25TH		142.		58.4	18.	2.1	7.6	58.5		25 <sup>e</sup>
MEDIAN 50TH		147.		60.4	25.	4.5	7.7	61.8		50 <sup>e</sup> MEDIANE
75TH		153.		63.3	30.	7.5	8.7	63.5		75 <sup>e</sup>
90TH		160.		69.8		11.6	8.9	67.6		90 <sup>e</sup>
SECONDARY CODE				03E						CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301			11(0)	11(0)	10(4)	10(4)			MINIMUM
HIGH				14.8	4.7	0.	54.			MAXIMUM
AVERAGE				18.6	6.	8.	Q91.			MOYENNE
STD.DEV.				16.20	5.2	2.*	72.*			ECART-TYPE
				1.25	.4	3.*	10.*			
PERCNT:10TH				14.9	4.8	0.	60.			10 <sup>e</sup> PERCNT
25TH				15.2	4.9	Q1.	67.			25 <sup>e</sup>
MEDIAN 50TH				15.9	5.1	1.	72.			50 <sup>e</sup> MEDIANE
75TH				16.7	5.3	4.	Q76.			75 <sup>e</sup>
90TH				18.1	5.5	7.	86.			90 <sup>e</sup>
SECONDARY CODE					02E					CODE DE SECOURS

		07001E NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07205L NITROGEN DISSOLVED NITRITE N MG/L	07301E NITROGEN DISSOLVED NITRATE N MG/L	07401E NITROGEN TOTAL ORGANIC N MG/L	07554L NITROGEN DISSOLVED AMMONIA N MG/L	07601E NITROGEN TOTAL N MG/L	15254E PHOSPHATE DISSOLVED ORTHO PO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0301	10(0)	6(4)	7(7)	6(4)	10(0)		4(0)	5(0)	MINIMUM
HIGH		.8	L.02	L.005	L.02	.5		1.22	.01	MAXIMUM
AVERAGE		4.	.18	L.005	.25	4.0		4.	.05	MOYENNE
STD.DEV.		1.5	.063*		.085*	1.4		2.37	.04	ECART-TYPE
		1.1	.070*		.103*	1.1		1.36	.02	
PERCNT:10TH		.9				.6				10 <sup>e</sup> PERCNT
25TH		1.0	L.02	L.005	L.02	.9		1.24	.04	25 <sup>e</sup>
MEDIAN 50TH		1.1	L.020	L.005	L.020	1.0		2.13	.04	50 <sup>e</sup> MEDIANE
75TH		1.3	.12	L.005	.18	1.2		3.50	.05	75 <sup>e</sup>
90TH		3.5				3.5				90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## PEACE RIVER SUB-BASIN

STATION **01CB07FC0009** LAT. **56 D 21 M 50 S** LONG. **121 D 2 M 15 S**UTM **10 621200E 6248000 N**  
JUN 19, 1974 TO/A MAR 23, 1976CHARLIE LAKE AT NORTH END OF LAKE, ONE  
HALF MILE FROM INLET, FORT ST JOHN.

		15412L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	06151L CARBON DISSOLVED INORGANIC C	08102F OXYGEN DISSOLVED DO O2	24052L CHROMIUM DISSOLVED CR	25104L MANGANESE DISSOLVED MN	25004L MANGANESE TOTAL MN	
	SUBM ID	P MG/L	SiO2 MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>	<b>11(0)</b>		<b>11(0)</b>		<b>8(0)</b>				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.042</b>		<b>11.</b>		<b>7.4</b>				<b>MINIMUM</b>
<b>HIGH</b>		<b>.253</b>		<b>35.</b>		<b>13.6</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.114</b>		<b>16.5</b>		<b>10.0</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.074</b>		<b>6.5</b>		<b>2.0</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.043</b>		<b>12.</b>						<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.047</b>		<b>13.</b>		<b>8.8</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.087</b>		<b>15.</b>		<b>9.5</b>				<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.147</b>		<b>17.</b>		<b>11.3</b>				<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.239</b>		<b>17.</b>						<b>90<sup>e</sup></b>
SECONDARY CODE		06L								CODE DE SECOURS

		80011L MERCURY TOTAL	06551L TANNIN AND LIGNIN	06716L CHLORO- PHYLL A	10701L SURFACT. N-ALKYL SULPHNTS. LAS	10402L RESIDUE NONFILTR.	10471L RESIDUE TOTAL	36010E COLIFORMS FECAL	36000E COLIFORMS TOTAL	
	SUBM ID	HG UG/L	LIG.SULPH. MG/L	MG/L	MG/L	MG/L	MG/L	MF NO/ML	MPN NO/ML	
<b>SAMPLES(FLAGS)</b>	<b>0301</b>					<b>11(0)</b>	<b>6(0)</b>			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>						<b>3.</b>	<b>112.</b>			<b>MINIMUM</b>
<b>HIGH</b>						<b>29.</b>	<b>140.</b>			<b>MAXIMUM</b>
<b>AVERAGE</b>						<b>8.4</b>	<b>121.</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>						<b>8.4</b>	<b>11.</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>						<b>3.</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						<b>3.</b>	<b>112.</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>						<b>4.</b>	<b>117.</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						<b>16.</b>	<b>126.</b>			<b>75<sup>e</sup></b>
<b>90TH</b>						<b>16.</b>				<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives









# WATER QUALITY STATIONS : ALPHABETICAL INDEX

## LIARD RIVER

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
FLAT RIVER ABOVE MINE RAW WATER INTAKE, CANADA TUNGSTEN MINE, NORTHWEST TERRITORIES	00NW10EA0001 97900S002	61	57	30	128	13	0	805
FLAT RIVER APPROX. 1 MILE DOWNSTREAM OF TAILINGS DECANT DISCHARGE, CANADA TUNGSTEN MINES, NORTHWEST TERRITORIES	00NW10EA0005	61	56	51	128	11	45	813
FLAT RIVER AT CAUSEWAY CULVERT BELOW MILL DECANT DISCHARGE, SAMPLED AT THE SMALLER CULVERT TO THE WEST OF THE LARGE CULVERT, CANADA TUNGSTEN MINE, NORTHWEST TERRITORIES	00NW10EA0002	61	57	0	128	13	0	807
FLAT RIVER NEAR MOUTH, NORTHWEST TERRITORIES	00NW10EA0004 97900S003	61	32	0	125	24	21	811
FRANCES RIVER AT W.S.C. GAUGE AT BRIDGE ON ROBERT CAMPBELL HIGHWAY ABOUT 37 MILES NORTH OF WATSON LAKE, YUKON TERRITORY	00YT10AB0001 97900S001	60	27	15	129	8	9	832
LIARD RIVER ABOUT 150 METRES UPSTREAM FROM JUNCTION OF LIARD AND MACKENZIE RIVERS, NORTHWEST TERRITORIES	00NW10ED0007	61	50	45	121	17	25	829
LIARD RIVER ABOUT 8.5 MILES BELOW FORT LIARD, NORTHWEST TERRITORIES	00NW10ED0005	60	19	0	123	20	0	827
LIARD RIVER ABOVE FORT SIMPSON, NORTHWEST TERRITORIES	00NW10ED0002 97900S002	61	44	24	121	13	11	821
LIARD RIVER AT FORT LIARD, NORTHWEST TERRITORIES	00NW10ED0001 97900S001	60	14	35	123	28	45	819
LIARD RIVER AT NAHANNI BUTTE 1.5 MILES FROM JUNCTION WITH SOUTH NAHANNI RIVER, NORTHWEST TERRITORIES	00NW10ED0003	61	2	30	123	22	0	823
LIARD RIVER AT W.S.C. GAUGE AT BRIDGE ON ALASKA HIGHWAY IN UPPER LIARD CROSSING, YUKON TERRITORY	00YT10AA0001 97900S001	60	3	0	128	54	0	830
SARDINE CREEK AT CULVERT AT ROAD TO WATSON LAKE, CANADA TUNGSTEN MINE SITE 3, NORTHWEST TERRITORIES	00NW10EA0003	61	57	0	128	13	0	809
SOUTH NAHANNI RIVER ABOVE CLAUSEN CREEK, NORTHWEST TERRITORIES	00NW10EC0001 97900S001	61	15	0	124	2	0	817
SOUTH NAHANNI RIVER ABOVE VIRGINIA FALLS, NORTHWEST TERRITORIES	00NW10EB0001 97900S001	61	38	0	125	48	0	815

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
SOUTH NAHANNI RIVER AT NAHANNI BUTTE, NORTHWEST TERRITORIES	00NW10ED0004	61	2	30	123	24	0	825

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION **00NW10EA0001** LAT. **61 D 57 M 30 S** LONG. **128 D 13 M 0 S**UTM **09 541000 E 6870000 N**  
AUG 24, 1966 TO/A DEC 20, 1976FLAT RIVER ABOVE MINE RAW WATER  
INTAKE, CANADA TUNGSTEN MINE,

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	0018	34(0)	27(4)	31(0)	33(5)	33(1)	34(0)	34(0)	27(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	103.	60.	27.0	0.	.3	7.3	40.	Q -1.2	<b>MINIMUM</b>
<b>HIGH</b>		330.	180.	173.	30.	23.	8.3	139.	.7	<b>MAXIMUM</b>
<b>AVERAGE</b>		205.	115.*	106.5	7.*	4.4*		82.0		<b>MOYENNE</b>
<b>STD.DEV.</b>		64.	39.*	39.5	7.*	4.6*		29.6		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		125.	Q64.	59.0	0.	.7	7.5	44.7	-1.0	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		142.	75.	68.0	L5.	1.2	7.6	52.	-.7	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		200.	137.	120.	5.	3.2	7.7	81.2	-.3	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		267.	152.	138.	5.	5.6	7.8	106.	-.1	<b>75<sup>e</sup></b>
<b>90TH</b>		280.	156.	148.	20.	10.	8.0	116.	.2	<b>90<sup>e</sup></b>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	0018	27(0)	27(0)	34(0)	5(0)	22(0)	22(0)	27(4)	28(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	.3	.1	15.	4.7	0.	49.	L.1	15.	<b>MINIMUM</b>
<b>HIGH</b>		1.2	3.0	83.4	8.9	0.	169.	10.	32.0	<b>MAXIMUM</b>
<b>AVERAGE</b>		.7	.7	32.23	6.1	0.	107.	.7*	23.5	<b>MOYENNE</b>
<b>STD.DEV.</b>		.2	.5	13.79	1.8	0.	39.	1.9*	6.2	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.4	.4	19.0		0.	54.	L.1	16.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.6	.6	20.6	4.9	0.	63.	.2	17.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.6	.6	31.05	5.0	0.	122.	.3	24.0	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.8	.7	40.	7.0	0.	138.	.5	29.0	<b>75<sup>e</sup></b>
<b>90TH</b>		.9	1.0	43.6		0.	143.	.9	31.5	<b>90<sup>e</sup></b>
SECONDARY CODE				01L 02L				06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	0018	13(3)	31(4)			21(5)	26(0)	17(2)	3(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	L.0	L.005			L.003	3.1	L.5	.05	<b>MINIMUM</b>
<b>HIGH</b>		L.5	1.40			.04	5.6	6.5	L.10	<b>MAXIMUM</b>
<b>AVERAGE</b>		.2*	.119*			.009*	4.15	2.4*	.07*	<b>MOYENNE</b>
<b>STD.DEV.</b>		.1*	.247*			.009*	.78	1.6*	.03*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		L.1	L.01			.003	3.2	L.0		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.1	.03			.004	3.4	1.		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.1	.07			.005	4.05	2.	.07	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.3	.110			.009	4.9	3.		<b>75<sup>e</sup></b>
<b>90TH</b>		.4	.21			.015	5.2	5.		<b>90<sup>e</sup></b>
SECONDARY CODE		02L	05L 09L 08L			13L 11L			04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB BASIN

LATITUDE 00NW10EA0001 LAT 61 D 57M 30 S LONG 128 D 13M 0 S

UTM 09 541000 6870000  
AUG 24 1966 TO/A DEC 04 1974FLAT RIVER ABOVE MINE RAW WATER  
INTAKE CANADA TUNGSTEN MINE

	SUBM ID	03301P LITHIUM EXTRBL. LI MG/L	05103L BORON DISSOLVED B MG/L	13303P ALUMINUM EXTRBL. AL MG/L	23302P VANADIUM EXTRBL. V MG/L	24303P CHROMIUM EXTRBL. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25305P MANGANESE EXTRBL. MN MG/L	27302P COBALT EXTRBL. CO MG/L	
SAMPLES(FLAGS)	0018			4(2)		10(9)	14(10)	16(8)	5(5)	ECHANTILLONS(IND.)
LOW	0001			L.06		L.006	L.008	L.006	L.005	MINIMUM
HIGH				.17		L.015	.13	.030	L.06	MAXIMUM
AVERAGE				.100*		.0110*	.021*	.015*		MOYENNE
STD.DEV.				.048*		.0038*	.032*	.007*		ECART-TYPE
PERCNT:10TH						L.0060	.008	L.008		10 <sup>e</sup> PERCNT
25TH				L.070		L.008	L.010	L.010	L.01	25 <sup>e</sup>
MEDIAN 50TH				.085*		.0105*	L.010	.013*	L.02	50 <sup>e</sup> MEDIANE
75TH				.130		L.015	L.02	.020*	L.06	75 <sup>e</sup>
90TH						L.0150	.03	.03		90 <sup>e</sup>
SECONDARY CODE				02P		02P	04P 01L	04P 04L	01P 01L	CODE DE SECOURS

	SUBM ID	26104L IRON DISSOLVED FE MG/L	26305P IRON EXTRBL. FE MG/L	28302P NICKEL EXTRBL. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBL. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBL. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0018	16(4)	29(2)	18(14)	13(4)	28(18)	12(4)	32(12)	18(5)	ECHANTILLONS(IND.)
LOW	0001	.01	.020	L.002	L.001	L.001	L.001	L.001	.000	MINIMUM
HIGH		.17	2.20	L.05	.22	.036	L.016	.16	.005	MAXIMUM
AVERAGE		.056*	.271*	.020*	.025*	.009*	.005*	.018*	.002*	MOYENNE
STD.DEV.		.047*	.396*	.019*	.059*	.008*	.004*	.029*	.002*	ECART-TYPE
PERCNT:10TH		.020	.05	L.002	L.001	L.001	.001	.003	L.000	10 <sup>e</sup> PERCNT
25TH		.030*	.10	L.005	.001	.002	.002*	.007	.001	25 <sup>e</sup>
MEDIAN 50TH		L.040	.17	.009*	L.01	L.010	.003	L.010	.001	50 <sup>e</sup> MEDIANE
75TH		.060	.350	L.04	.015	L.010	.007	.015*	L.004	75 <sup>e</sup>
90TH		.14	.46	L.05	.022	.02	L.01	.03	L.005	90 <sup>e</sup>
SECONDARY CODE		02L 04P	02L 04P 04L	01P 01L 02L	06L 05P	06L 05L 06P	04L 05P	04L 05L 04P	04L 01L	CODE DE SECOURS

	SUBM ID	38301P STRONTIUM EXTRBL. SR MG/L	42302P MOLYBDENUM EXTRBL. MO MG/L	48102L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBL. CD MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBL. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR MG/L	
SAMPLES(FLAGS)	0018		7(7)	2(2)	6(6)	12(6)	24(19)	6(3)	4(2)	ECHANTILLONS(IND.)
LOW	0001		L.010	L.001	L.002	L.001	L.001	1.	L.1	MINIMUM
HIGH			L.10	L.006	L.03	L.05	L.05	37.	8.	MAXIMUM
AVERAGE						.008*	.017*	8.*	3.*	MOYENNE
STD.DEV.						.013*	.021*	14.*	4.*	ECART-TYPE
PERCNT:10TH						L.003	L.001			10 <sup>e</sup> PERCNT
25TH			L.06		L.007	.003*	.003*	L.1.	L.1.	25 <sup>e</sup>
MEDIAN 50TH			L.08	L.003	L.010	.004*	L.005	L.1.	1.*	50 <sup>e</sup> MEDIANE
75TH			L.10		L.03	.005	L.045	8.	5.	75 <sup>e</sup>
90TH						.009	L.05			90 <sup>e</sup>
SECONDARY CODE			01P	02P	01P 01L	03P 01L	01P 02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION **00NW10EA0002** LAT. **61 D 57 M 0 S** LONG. **128 D 13 M 0 S**UTM **09 541000E 6869000N**  
AUG 24, 1966 TO/À DEC 20, 1976FLAT RIVER AT CAUSEWAY CULVERT BELOW  
MILL DECANT DISCHARGE.

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS) 0018</b>	<b>30(0)</b>	<b>20(1)</b>	<b>22(0)</b>	<b>30(1)</b>	<b>30(0)</b>	<b>30(0)</b>	<b>29(0)</b>	<b>21(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>131.</b>	<b>Q67.</b>	<b>23.</b>	<b>0.</b>	<b>.8</b>	<b>7.1</b>	<b>42.</b>	<b>-.9</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>5805.</b>	<b>171.</b>	<b>159.</b>	<b>20.</b>	<b>125.</b>	<b>8.1</b>	<b>120.</b>	<b>.3</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>431.</b>	<b>117.*</b>	<b>105.3</b>	<b>7.*</b>	<b>18.0</b>		<b>77.2</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>1032.</b>	<b>40.*</b>	<b>39.4</b>	<b>6.*</b>	<b>26.0</b>		<b>26.6</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>137.</b>	<b>70.</b>	<b>63.</b>	<b>0.</b>	<b>1.8</b>	<b>7.6</b>	<b>44.</b>	<b>-.8</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>159.</b>	<b>78.</b>	<b>68.2</b>	<b>L5.</b>	<b>2.7</b>	<b>7.6</b>	<b>54.1</b>	<b>-.6</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>205.</b>	<b>112.</b>	<b>103.0</b>	<b>5.</b>	<b>6.7</b>	<b>7.8</b>	<b>74.8</b>	<b>-.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>298.</b>	<b>159.</b>	<b>147.</b>	<b>10.</b>	<b>21.</b>	<b>7.9</b>	<b>105.</b>	<b>-.1</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>316.</b>	<b>166.</b>	<b>150.</b>	<b>20.</b>	<b>45.0</b>	<b>7.9</b>	<b>114.</b>	<b>-.1</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					73L				CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS) 0018</b>	<b>24(0)</b>	<b>25(0)</b>	<b>31(0)</b>	<b>8(0)</b>	<b>17(0)</b>	<b>17(0)</b>	<b>24(1)</b>	<b>25(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.5</b>	<b>.6</b>	<b>17.1</b>	<b>2.9</b>	<b>0.</b>	<b>56.</b>	<b>L.1</b>	<b>17.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.6</b>	<b>3.4</b>	<b>50.6</b>	<b>7.2</b>	<b>0.</b>	<b>146.</b>	<b>.9</b>	<b>61.2</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.8</b>	<b>1.6</b>	<b>30.74</b>	<b>5.2</b>	<b>0.</b>	<b>97.</b>	<b>.4*</b>	<b>29.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.3</b>	<b>.9</b>	<b>9.99</b>	<b>1.4</b>	<b>0.</b>	<b>31.</b>	<b>.2*</b>	<b>11.3</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.5</b>	<b>.7</b>	<b>18.2</b>		<b>0.</b>	<b>61.</b>	<b>.1</b>	<b>19.2</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.6</b>	<b>.8</b>	<b>22.0</b>	<b>4.5</b>	<b>0.</b>	<b>68.</b>	<b>.3</b>	<b>21.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.8</b>	<b>1.3</b>	<b>28.</b>	<b>5.1</b>	<b>0.</b>	<b>97.</b>	<b>.4</b>	<b>26.1</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.9</b>	<b>2.3</b>	<b>42.</b>	<b>6.4</b>	<b>0.</b>	<b>132.</b>	<b>.6</b>	<b>37.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.2</b>	<b>3.0</b>	<b>43.2</b>		<b>0.</b>	<b>139.</b>	<b>.7</b>	<b>48.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE			01L 02L				06L	04L 06L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SUBM ID									
<b>SAMPLES(FLAGS) 0018</b>	<b>13(0)</b>	<b>27(1)</b>			<b>20(3)</b>	<b>23(0)</b>	<b>14(2)</b>	<b>2(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.0</b>	<b>L.005</b>			<b>L.003</b>	<b>3.0</b>	<b>L.5</b>	<b>.05</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.4</b>	<b>74.0</b>			<b>.090</b>	<b>5.3</b>	<b>15.0</b>	<b>.13</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.2</b>	<b>3.011*</b>			<b>.018*</b>	<b>3.97</b>	<b>3.3*</b>	<b>.09</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.1</b>	<b>14.199*</b>			<b>.021*</b>	<b>.67</b>	<b>4.0*</b>	<b>.06</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.1</b>	<b>.020</b>			<b>L.003</b>	<b>3.3</b>	<b>L.0</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.1</b>	<b>.05</b>			<b>.004</b>	<b>3.4</b>	<b>1.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.2</b>	<b>.10</b>			<b>.011</b>	<b>3.7</b>	<b>1.5</b>	<b>.09</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.2</b>	<b>.33</b>			<b>.021</b>	<b>4.5</b>	<b>4.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.4</b>	<b>.97</b>			<b>.043</b>	<b>4.9</b>	<b>8.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE	02L	05L			13L 11L			04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## LIARD RIVER SUB BASIN

STATION 00NW10EA0002 LAT. 61 D 57M 0 S LONG. 128 D 13M 0 S

UTM 09 541000E 6869000 N  
JUN 03 1967 TO/A DEC 04 1974FLAT RIVER AT CAUSEWAY CULVERT BELOW  
MILL DECANT DISCHARGE

	03101P LITHIUM EXTRBLE LI MG/L	05103L BORON DISSOLVED B MG/L	13303P ALUMINUM EXTRBLE. AL MG/L	23102P VANADIUM EXTRBLE. V MG/L	24303P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25305P MANGANESE EXTRBLE. MN MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS)	0018		4(0)		11(9)	11(3)	17(0)	5(5)	ECHANTILLONS(IND.)
LOW			.19		L.006	L.010	.014	L.005	MINIMUM
HIGH			.96		.041	.15	.26	L.06	MAXIMUM
AVERAGE			.525		.0133*	.070*	.072		MOYENNE
STD.DEV.			.391		.0100*	.047*	.066		ECART-TYPE
PERCNT:10TH					L.006	L.010	.016		10 <sup>e</sup> PERCNT
25TH			.195		L.006	L.010	.027	L.02	25 <sup>e</sup>
MEDIAN 50TH			.475		L.010	.075	.063	L.02	50 <sup>e</sup> MEDIANE
75TH			.855		L.015	.11	.096	L.02	75 <sup>e</sup>
90TH					L.015	.12	.19		90 <sup>e</sup>
SECONDARY CODE			02P		02P	01L 04P	04P 04L	01P	CODE DE SECOURS

	26104L IRON DISSOLVED FE MG/L	26305P IRON EXTRBLE. FE MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0018	14(7)	24(0)	20(13)	10(5)	29(13)	10(1)	29(8)	ECHANTILLONS(IND.)
LOW		L.001	.05	L.002	L.001	L.001	L.001	.000	MINIMUM
HIGH		14.5	22.0	L.05	L.013	.09	L.016	.09	MAXIMUM
AVERAGE		1.409*	2.169	.018*	.007*	.018*	.004*	.019*	MOYENNE
STD.DEV.		3.933*	4.951	.017*	.004*	.022*	.004*	.004*	ECART-TYPE
PERCNT:10TH		L.01	.12	.002*	.001*	.004	.002	.004	10 <sup>e</sup> PERCNT
25TH		L.03	.220	L.005	L.004	L.008	.002	.009	25 <sup>e</sup>
MEDIAN 50TH		.045*	.615	.008*	.007*	L.01	.003	.012	50 <sup>e</sup> MEDIANE
75TH		.15	1.500	L.027	.009	L.015	.005	.02	75 <sup>e</sup>
90TH		4.30	2.50	L.050	L.011	.07	.011*	.037	90 <sup>e</sup>
SECONDARY CODE		02L 04P	02L 04P 04L	01P	06L 05P	06P 06L 05L*	04L 05P	04P 04L 05L	04L 01L

	38301P STRONTIUM EXTRBLE. SR MG/L	42302P MOLYBDENUM EXTRBLE. MO MG/L	48102L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBLE. CD MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBLE. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS)	0018		7(7)	1(0)	6(5)	10(8)	22(17)	5(1)	ECHANTILLONS(IND.)
LOW			L.010	.001	L.002	L.003	L.003	L.1	MINIMUM
HIGH			L.10	.001	L.03	L.05	L.05	41.	MAXIMUM
AVERAGE				.009*	.009*	.019*	13.*	16.	MOYENNE
STD.DEV.				.011*	.015*	.020*	16.*	17.	ECART-TYPE
PERCNT:10TH						L.003	.003		10 <sup>e</sup> PERCNT
25TH			L.06	.002	L.004	L.004	2.		25 <sup>e</sup>
MEDIAN 50TH			L.08	L.006	L.004	.006*	9.	6.	50 <sup>e</sup> MEDIANE
75TH			L.10	L.01	.005	L.04	14.		75 <sup>e</sup>
90TH					.028*	L.05			90 <sup>e</sup>
SECONDARY CODE			01P	01P	03P 01L 02L	01L 01P 02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION 00NW10EA0003 LAT. 61 D 57M 0 S LONG. 128 D 13M 0 S

UTM 09 541000E 6869000 N  
MAY 22, 1970 TO/À JUN 02, 1976SARDINE CREEK AT CULVERT AT ROAD TO  
WATSON LAKE, CANADA TUNGSTEN MINE SITE

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0018	19(0)	16(0)	14(0)	19(5)	19(0)	19(0)	19(0)	16(0)	MINIMUM
HIGH	0001	146.	83.	81.0	0.	.4	7.5	58.0	-.8	MAXIMUM
AVERAGE		423.	241.	213.	110.	200.	8.2	174.	.8	MOYENNE
STD.DEV.		77.	48.	42.5	25.*	53.2		35.7		ECART-TYPE
PERCNT:10TH		179.	89.	81.4	0.	.7	7.7	58.	-.5	10 <sup>e</sup> PERCNT
25TH		245.	128.	110.	L5.	3.6	7.8	60.5	-.2	25 <sup>e</sup>
MEDIAN 50TH		287.	160.	148.5	5.	5.9	8.0	66.6	.0	50 <sup>e</sup> MEDIANE
75TH		350.	201.	174.	10.	47.	8.1	78.1	.2	75 <sup>e</sup>
90TH		405.	234.	208.	30.	110.	8.2	170.	.6	90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0018	16(0)	16(0)	19(0)	7(0)	12(0)	12(0)	16(0)	16(0)	MINIMUM
HIGH	0001	.5	.5	23.9	5.2	0.	71.	.2	10.0	MAXIMUM
AVERAGE		2.0	8.2	64.0	9.4	0.	212.	3.4	120.	MOYENNE
STD.DEV.		1.1	2.9	44.22	6.7	0.	110.	.8	55.0	ECART-TYPE
		.3	2.2	11.96	1.4	0.	52.	.8	29.9	
PERCNT:10TH		.8	1.3	29.0		0.	73.	.2	21.0	10 <sup>e</sup> PERCNT
25TH		.9	1.5	33.1	5.4	0.	76.	.3	34.5	25 <sup>e</sup>
MEDIAN 50TH		1.0	2.1	46.	6.4	0.	83.	.6	49.0	50 <sup>e</sup> MEDIANE
75TH		1.2	3.5	55.	7.4	0.	135.	1.0	67.0	75 <sup>e</sup>
90TH		1.5	7.5	62.1		0.	207.	1.4	108.	90 <sup>e</sup>
SECONDARY CODE				01L 02L				06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0018	8(1)	16(0)			10(2)	15(0)	9(1)	3(0)	MINIMUM
HIGH	0001	.1	.120			L.003	3.2	L.5	.09	MAXIMUM
AVERAGE		.6	2.11			.067	6.6	5.	.15	MOYENNE
STD.DEV.		.4*	.774			.013*	4.51	2.3*	.11	ECART-TYPE
		.2*	.553			.020*	1.20	1.8*	.03	
PERCNT:10TH			.150			.003*	3.3			10 <sup>e</sup> PERCNT
25TH		.2	.441			.004	3.7	1.		25 <sup>e</sup>
MEDIAN 50TH		.3	.678			.007	3.9	1.4	.09	50 <sup>e</sup> MEDIANE
75TH		.5*	.890			.010	6.0	3.		75 <sup>e</sup>
90TH			1.8			.044	6.3			90 <sup>e</sup>
SECONDARY CODE			05L			13L 11L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## LIARD RIVER SUB BASIN

STATION 00NW10EA0003 LAT 61 D 57M 0 S LONG. 128 D 13M 0 S

UTM 09 541000 6869000 N  
JUN 15 1971 TO: A AUG 24 1974SARDINE CREEK AT CULVERT AT ROAD TO  
WATSON LAKE CANADA TUNGSTEN MINE SITE

	03301P LITHIUM EXTRBLE. LI MG/L	05103L BORON DISSOLVED B MG/L	13303P ALUMINUM EXTRBLE AL MG/L	23302P VANADIUM EXTRBLE V MG/L	24303P CHROMIUM EXTRBLE CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	26305P MANGANESE EXTRBLE MN MG/L	27302P COBALT EXTRBLE CO MG/L	
SAMPLES(FLAGS)	0018		1(0)		2(2)	5(4)	8(0)	5(5)	ECHANTILLONS(IND.)
LOW	0001		2.7		L.015	L.010	.03	L.005	MINIMUM
HIGH			2.7		L.015	.027	.12	L.06	MAXIMUM
AVERAGE						.013*	.061		MOYENNE
STD.DEV.						.008*	.033		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH						L.010	.033	L.01	25 <sup>e</sup>
MEDIAN 50TH					L.0150	L.01	.054	L.02	50 <sup>e</sup> MEDIANE
75TH						L.01	.084	L.02	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			02P		02P		04P 04L	01L 01P	CODE DE SECOURS

		26104L IRON DISSOLVED	26305P IRON EXTRBLE.	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0001	5(3)	14(1)	10(7)	5(1)	14(5)	5(0)	14(2)	11(3)	ECHANTILLONS(IND.)
LOW	0018	L.001	L.05	.003	L.001	.003	.001	.002	.000	MINIMUM
HIGH		.070	25.0	L.05	.004	.07	.019	.13	.033	MAXIMUM
AVERAGE		.037*	3.324*	.017*	.002*	.019*	.007	.039*	.007*	MOYENNE
STD.DEV.		.034*	6.386*	.017*	.001*	.020*	.008	.048*	.010*	ECART-TYPE
PERCNT:10TH			.21	.004*		.006		.002	.001	10 <sup>e</sup> PERCNT
25TH		L.004	.51	L.005	.001	.007	.001	L.01	.002	25 <sup>e</sup>
MEDIAN 50TH		L.04	1.310	.008*	.002	L.010	.005	.015*	L.004	50 <sup>e</sup> MEDIANE
75TH		.07	2.90	L.025	.002	L.015	.010	.07	.006	75 <sup>e</sup>
90TH			4.80	L.045		.05		.130	.017	90 <sup>e</sup>
SECONDARY CODE		02L	02L 04P 04L	01P 01L		06L 05L 06P		05L 04L 04P	01L 04L	CODE DE SECOURS

	38301P STRONTIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L
SAMPLES(FLAGS)	0018		1(1)		5(4)	5(3)	11(9)	3(0)	1(0)
LOW	0001		L.10		L.002	L.001	L.001	1.	6.
HIGH			L.10		L.03	.004	L.05	9.	6.
AVERAGE					.011*	.003*	.017*	5.	
STD.DEV.					.011*	.001*	.019*	4	
PERCNT:10TH							L.004		
25TH					.004	L.004	L.004		
MEDIAN 50TH					L.007	L.004	L.006	5.	
75TH					L.01	.004	L.04		
90TH							L.05		
SECONDARY CODE			01P		01P 01L		01P 02L		
									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION **00NW10EA0004** LAT. **61 D 32 M 0 S** LONG. **125 D 24 M 21 S**UTM **10 372100E 6824300 N**  
MAY 26, 1972 TO/À APR 24, 1974FLAT RIVER NEAR MOUTH,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM									
SAMPLES(FLAGS)	0001	9(0)	9(0)	8(0)	9(2)	9(0)	9(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW	0018	182.	97.	86.2	L5.	.5	7.7	50.9	-.3	MINIMUM
HIGH		400.	225.	214.	140.	30.0	8.2	175.	.5	MAXIMUM
AVERAGE		307.	169.	163.6	24.*	11.6		126.7		MOYENNE
STD.DEV.		86.	49.	50.1	44.*	11.2		42.3		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		256.	137.	120.0	5.	2.6	7.9	107.	.3	25 <sup>e</sup>
MEDIAN 50TH		297.	172.	177.0	8.	7.6	8.0	129.	.3	50 <sup>e</sup> MEDIANE
75TH		390.	213.	207.5	15.	21.0	8.1	163.	.3	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID										
SAMPLES(FLAGS)	0001	9(0)	9(0)	9(0)	1(0)	7(0)	7(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW	0018	.6	1.0	28.5	7.8	0.	62.	.3	18.0	MINIMUM
HIGH		1.2	2.7	72.2	7.8	0.	213.	1.3	42.0	MAXIMUM
AVERAGE		.9	1.7	50.41		0.	161.	.8	30.9	MOYENNE
STD.DEV.		.2	.5	14.56		0.	58.	.4	8.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.8	1.5	41.0		0.	104.	.5	25.0	25 <sup>e</sup>
MEDIAN 50TH		.9	1.5	51.0		0.	183.	.9	33.0	50 <sup>e</sup> MEDIANE
75TH		.9	1.6	62.0		0.	208.	1.0	36.0	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01L				06L	04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SUBM ID										
SAMPLES(FLAGS)	0001	1(0)	3(0)			1(0)	7(0)	1(0)	1(1)	ECHANTILLONS(IND.)
LOW	0018	.1	.05			.015	2.8	32.0	L.05	MINIMUM
HIGH		.1	.130			.015	6.4	32.0	L.05	MAXIMUM
AVERAGE			.100				5.36			MOYENNE
STD.DEV.			.044				1.29			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH							4.6			25 <sup>e</sup>
MEDIAN 50TH			.120				5.8			50 <sup>e</sup> MEDIANE
75TH							6.4			75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			05L			13L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB BASIN

STATION 00NW10EA0004 LAT. 61 D 32 M 0 S LONG. 125 D 24 M 21 S

UTM 10 372100E 6824300 N  
MAY 26 1972 TO/A SEP 02 1973FLAT RIVER NEAR MOUTH,  
NORTHWEST TERRITORIES

	03301P LITHIUM EXTRBLE.	05103L BORON DISSOLVED	13303P ALUMINIUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24303P CHROMIUM EXTRBLE.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBLE.	27302P COBALT EXTRBLE.	
SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS) 0018						1(1)	1(0)	1(1)	ECHANTILLONS(IND.)
LOW 0001						L.01	.014	L.005	MINIMUM
HIGH						L.01	.014	L.005	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE							04P		CODE DE SECOURS

	26104L IRON DISSOLVED	26305P IRON EXTRBLE.	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS) 0001	1(0)	1(0)	1(0)	1(0)	1(1)	1(1)	1(0)	1(1)	ECHANTILLONS(IND.)
LOW 0018	.210	.44	.010	.002	L.006	L.01	.031	L.004	MINIMUM
HIGH	.210	.44	.010	.002	L.006	L.01	.031	L.004	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L	04P			06P	04L	04P		CODE DE SECOURS

	38301P STRONTIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0018				1(1)	1(1)	1(1)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW 0001				L.002	L.01	L.006	15.	10.	MINIMUM
HIGH				L.002	L.01	L.006	119.	105.	MAXIMUM
AVERAGE							43.	36.	MOYENNE
STD.DEV.							44.	40.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH							17.	13.	25 <sup>e</sup>
MEDIAN 50TH							24.	14.	50 <sup>e</sup> MEDIANE
75TH							42.	37.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION **00NW10EA0005** LAT. **61 D 56 M 51 S** LONG. **128 D 11 M 45 S**UTM **09 542200 E 6868400 N**  
MAR 28, 1973 TO/A DEC 09, 1975FLAT RIVER APPROX. 1 MILE DOWNSTREAM  
OF TAILINGS DECANT DISCHARGE,

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								
LOW	0018	18(0)	16(0)	11(0)	16(1)	17(0)	18(0)	17(0)	16(0)	ECHANTILLONS(IND.)
HIGH		104.	57.	48.	0.	1.2	7.5	36.	-.6	MINIMUM
AVERAGE		315.	168.	146.	20.	33.	8.4	118.	.4	MAXIMUM
STD.DEV.		222.	114.	122.7	7.*	9.7		79.7		MOYENNE
		82.	45.	36.2	7.*	8.5		32.8		ECART-TYPE
PERCNT:10TH		108.	59.	67.	0.	3.2	7.7	39.	-.6	10 <sup>e</sup> PERCNT
25TH		139.	70.	91.	0.	3.7	7.9	47.	-.5	25 <sup>e</sup>
MEDIAN 50TH		227.	102.	144.	5.	5.8	8.0	75.	-.3	50 <sup>e</sup> MEDIANE
75TH		300.	160.	145.	10.	14.	8.1	111.	.0	75 <sup>e</sup>
90TH		313.	166.	146.	20.	23.	8.2	114.	.1	90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									
LOW	0018	16(0)	16(0)	17(0)	6(0)	10(0)	10(0)	16(0)	16(0)	ECHANTILLONS(IND.)
HIGH		.4	1.0	14.	3.6	0.	44.	.2	14.	MINIMUM
AVERAGE		1.1	5.1	97.1	5.8	0.	144.	5.2	37.	MAXIMUM
STD.DEV.		.8	2.8	33.63	4.5	0.	108.	1.1	26.0	MOYENNE
		.2	1.6	20.29	1.0	0.	40.	1.3	-8.6	ECART-TYPE
PERCNT:10TH		.5	1.2	14.6		0.	51.	.3	15.	10 <sup>e</sup> PERCNT
25TH		.6	1.4	18.	3.6	0.	61.	.4	18.5	25 <sup>e</sup>
MEDIAN 50TH		.8	2.2	27.1	4.3	0.	133.	.7	23.7	50 <sup>e</sup> MEDIANE
75TH		.9	4.6	42.	5.4	0.	139.	.9	35.0	75 <sup>e</sup>
90TH		1.0	5.0	46.		0.	141.	2.7	36.	90 <sup>e</sup>
SECONDARY CODE				01L				06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	SUBM ID									
LOW	0018	14(1)	15(0)			16(4)	12(0)	12(2)	1(0)	ECHANTILLONS(IND.)
HIGH		.0	.01			L.003	.1	L0.	.07	MINIMUM
AVERAGE		1.0	.26			.031	8.6	24.	.07	MAXIMUM
STD.DEV.		.3*	.126			.010*	4.42	4.1*		MOYENNE
		.2*	.093			.009*	2.04	6.5*		ECART-TYPE
PERCNT:10TH		L.1	.01			L.003	3.1	L0.		10 <sup>e</sup> PERCNT
25TH		.1	.02			.003*	3.40	1.0		25 <sup>e</sup>
MEDIAN 50TH		.2	.11			.006	4.30	1.5		50 <sup>e</sup> MEDIANE
75TH		.3	.21			.013	5.60	4.5		75 <sup>e</sup>
90TH		.4	.25			.025	5.7	5.		90 <sup>e</sup>
SECONDARY CODE		02L				13L 11L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB BASIN

STATION 00NW10EA0005 LAT. 61 D 56 M 51 S LONG. 128 D 11 M 45 S

UTM 09 542200E 6868400N  
MAR 28 1973 TO/A DEC 04 1974FLAT RIVER APPROX. 1 MILE DOWNSTREAM  
OF TAILINGS DECANT DISCHARGE

	03301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS) 0018			4(0)		11(9)	11(2)	12(1)	5(5)	ECHANTILLONS(IND.)
LOW			.22		L.006	L.010	L.010	L.005	MINIMUM
HIGH			.55		.340	.18	.10	L.06	MAXIMUM
AVERAGE			.380		.0402*	.075*	.052*		MOYENNE
STD.DEV.			.169		.0995*	.045*	.038*		ECART-TYPE
PERCNT:10TH					L.006	L.01	.019		10 <sup>e</sup> PERCNT
25TH			.235		L.006	.063	.020	L.02	25 <sup>e</sup>
MEDIAN 50TH			.375		L.009	.075	.029	L.02	50 <sup>e</sup> MEDIANE
75TH			.525		L.015	.088	.096	L.02	75 <sup>e</sup>
90TH					L.015	.10	.10		90 <sup>e</sup>
SECONDARY CODE			02P		02P	04P	04P	01P	CODE DE SECOURS

	26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS) 0018	10(5)	15(0)	14(7)	11(2)	15(5)	11(6)	15(3)	17(5)	ECHANTILLONS(IND.)
LOW	.02	.17	L.002	.002	.002	L.001	L.001	L.000	MINIMUM
HIGH	.13	3.70	.53	.045	.067	L.016	.11	.072	MAXIMUM
AVERAGE	.053*	.961	.050*	.023*	.024*	.004*	.020*	.011*	MOYENNE
STD.DEV.	.036*	.969	.139*	.018*	.020*	.004*	.032*	.021*	ECART-TYPE
PERCNT:10TH	.025*	.18	.002	.004	L.006	L.001	.003	.001	10 <sup>e</sup> PERCNT
25TH	L.03	.41	L.005	.005	L.010	L.002	.004	.001	25 <sup>e</sup>
MEDIAN 50TH	L.040	.83	.008	.015	L.015	.002	.007	.002	50 <sup>e</sup> MEDIANE
75TH	.07	1.1	L.025	.042	.042	.003	.018	.008	75 <sup>e</sup>
90TH	.115	2.6	L.04	.044	.050	.005	.08	L.057	90 <sup>e</sup>
SECONDARY CODE	02L 04P	04P	01P	06L 05P	06P	04L 05P	04P	04L	CODE DE SECOURS

	38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR	
SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0018		7(7)	1(1)	5(4)	11(9)	15(10)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		L.010	L.001	L.002	L.003	L.003	7.	4.	MINIMUM
HIGH		L.10	L.001	L.03	L.05	L.05	13.	13.	MAXIMUM
AVERAGE				.009*	.008*	.014*	9.	7.	MOYENNE
STD.DEV.				.012*	.014*	.017*	3.	5.	ECART-TYPE
PERCNT:10TH					L.003	.003			10 <sup>e</sup> PERCNT
25TH		L.06		.002	L.003	L.004			25 <sup>e</sup>
MEDIAN 50TH		L.08		L.006	L.004	.005	8.	5.	50 <sup>e</sup> MEDIANE
75TH		L.10		L.007	L.004	.010			75 <sup>e</sup>
90TH					.004	L.05			90 <sup>e</sup>
SECONDARY CODE		01P		01P	03P 01L	01P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION **00NW10EB0001** LAT. **61 D 38 M 0 S** LONG. **125 D 48 M 0 S**UTM **10 351600E 6836300 N**  
MAY 28, 1971 TO/A MAY 16, 1974SOUTH NAHANNI RIVER ABOVE VIRGINIA  
FALLS, NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0001	15(0)	16(0)	17(0)	17(8)	17(0)	16(0)	17(0)	16(0)	MINIMUM
HIGH	0124	170.	85.	80.0	L5.	.7	7.8	61.0	-.3	MAXIMUM
AVERAGE		433.	197.	191.	80.	50.0	8.3	143.	.5	MOYENNE
STD.DEV.		279.	143.	135.7	14.*	12.7		102.2		ECART-TYPE
		79.	40.	38.6	20.*	13.8		28.3		
PERCNT:10TH		181.	88.	82.5	L5.	.8	7.8	63.4	-.2	10 <sup>e</sup> PERCNT
25TH		217.	108.	104.	L5.	2.6	7.9	80.8	.0	25 <sup>e</sup>
MEDIAN 50TH		269.	139.	130.	5.	5.8	8.0	100.	.1	50 <sup>e</sup> MEDIANE
75TH		353.	183.	172.	10.	20.0	8.1	123.	.3	75 <sup>e</sup>
90TH		363.	191.	183.	40.	28.0	8.3	140.	.3	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73L		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBON. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001	17(0)	28(0)	28(0)	10(0)	15(0)	15(0)	27(2)	27(0)	MINIMUM
HIGH	0402	.5	.5	24.0	6.0	0.	74.	.2	15.5	MAXIMUM
AVERAGE	0124	1.0	7.0	52.1	16.0	0.	174.	6.0	44.0	MOYENNE
STD.DEV.		.7	1.3	36.35	8.8	0.	124.	.9*	28.9	ECART-TYPE
		.2	1.2	9.87	3.8	0.	36.	1.1*	10.3	
PERCNT:10TH		.5	.6	25.0	6.0	0.	77.	L.3	15.8	10 <sup>e</sup> PERCNT
25TH		.6	.8	26.90	6.4	0.	87.	.4	19.0	25 <sup>e</sup>
MEDIAN 50TH		.7	1.2	35.90	7.1	0.	122.	.6	28.0	50 <sup>e</sup> MEDIANE
75TH		.8	1.4	46.25	9.2	0.	165.	1.0	40.0	75 <sup>e</sup>
90TH		1.0	1.8	50.0	15.7	0.	171.	1.5	43.5	90 <sup>e</sup>
SECONDARY CODE			05L	01L 01F				07L 06L	05L 04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0124	2(2)	9(0)			2(0)	14(0)	8(2)	8(1)	MINIMUM
HIGH	0001	L.5	.040			.010	2.8	L.5	L.05	MAXIMUM
AVERAGE		L.5	.470			.067	5.8	16.0	.10	MOYENNE
STD.DEV.			.158			.039	4.54	5.0*	.08*	ECART-TYPE
			.138			.040	1.02	5.3*	.02*	
PERCNT:10TH							3.0			10 <sup>e</sup> PERCNT
25TH			.090				3.6	.7*	.07	25 <sup>e</sup>
MEDIAN 50TH		L.5	.100			.039	4.85	3.5	.08	50 <sup>e</sup> MEDIANE
75TH			.180				5.3	7.5	.09	75 <sup>e</sup>
90TH							5.8			90 <sup>e</sup>
SECONDARY CODE			05L 06F			13F				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB BASIN

STATION 00NW10EB0001 LAT. 61 D 38 M 0 S LONG. 125 D 48 M 0 S

UTM 10 351600E 6836300N  
MAY 28 1971 TO/A OCT 03 1973SOUTH NAIIANNI RIVER ABOVE VIRGINIA  
FALLS NORTHWEST TERRITORIES

		03303P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23102P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25105P MANGANESE EXTRBL.	27102P COBALT EXTRBL.	
	SRIM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS)	0124	2(2)	2(1)		2(2)	2(2)	14(10)	2(1)	2(0)	ECHANTILLONS(IND.)
LOW	0402	L.005	L.02		L.05	L.010	L.001	L.01	.003	MINIMUM
HIGH	0001	L.005	.02		L.05	L.010	.02	.02	.004	MAXIMUM
AVERAGE			.02*				.007*	.015*	.004	MOYENNE
STD.DEV.			.00*				.006*	.007*	.001	ECART-TYPE
PERCNT:10TH							L.001			10 <sup>e</sup> PERCNT
25TH							L.001			25 <sup>e</sup>
MEDIAN 50TH		L.005	.02*		L.0500	L.0100	.007*	.015*	.004	50 <sup>e</sup> MEDIANE
75TH							L.01			75 <sup>e</sup>
90TH							.011			90 <sup>e</sup>
SECONDARY CODE			05L		01P	02P	07L 05L	04P		CODE DE SECOURS

		26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33101L ARSENIC DISSOLVED	
	SRIM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0001	14(3)	2(0)	2(0)	12(7)	2(1)	10(2)	2(0)	2(2)	ECHANTILLONS(IND.)
LOW	0124	L.001	.18	.006	L.001	L.001	L.001	.007	L.005	MINIMUM
HIGH	0402	.17	1.10	.008	L.06	.003	.16	.02	L.08	MAXIMUM
AVERAGE		.053*	.640	.007	.007*	.002*	.023*	.014		MOYENNE
STD.DEV.		.043*	.651	.001	.017*	.001*	.049*	.009		ECART-TYPE
PERCNT:10TH		.005			L.001		L.001			10 <sup>e</sup> PERCNT
25TH		.010			L.001		.001			25 <sup>e</sup>
MEDIAN 50TH		.055	.640	.007	.001*	.002*	.004	.014	L.042	50 <sup>e</sup> MEDIANE
75TH		.06			.002*		.025			75 <sup>e</sup>
90TH		.090			.005		.096			90 <sup>e</sup>
SECONDARY CODE		02L 07L	04P		07L		07L 04L	04P	05L	CODE DE SECOURS

		18401P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED	
	SRIM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0402	2(1)	2(2)	5(4)	2(1)	12(11)	2(2)	22(1)	11(0)	ECHANTILLONS(IND.)
LOW	0001	L.02	L.05	L.001	L.001	L.001	L.001	L.1	2.	MINIMUM
HIGH	0124	.14	L.05	.001	.002	L.21	L.001	231.	48.	MAXIMUM
AVERAGE		.08*		.001*	.001*	.019*		51.*	21.	MOYENNE
STD.DEV.		.08*		.000*	.001*	.060*		62.*	17.	ECART-TYPE
PERCNT:10TH						L.001		6.	5.	10 <sup>e</sup> PERCNT
25TH				L.001		L.001		10.	6.	25 <sup>e</sup>
MEDIAN 50TH		.08*	L.0500	L.001	.001*	L.001	L.001	26.	10.	50 <sup>e</sup> MEDIANE
75TH				L.001		.002*		60.	39.	75 <sup>e</sup>
90TH						L.01		130.	42.	90 <sup>e</sup>
SECONDARY CODE			01P	03L		04L 02L		04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION **00NW10EC0001** LAT. **61 D 15 M 0 S** LONG. **124 D 2 M 0 S**UTM **10 444000E 6791000 N**  
MAY 27, 1969 TO/A OCT 29, 1974SOUTH NAHANNI RIVER ABOVE CLAUSEN  
CREEK, NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0001	28(0)	27(0)	26(0)	25(5)	28(0)	28(0)	27(0)	27(0)	ECHANTILLONS(IND.)
LOW	0056	174.	88.	84.0	L5.	1.3	7.7	70.6	-.1	MINIMUM
HIGH	0018	679.	363.	255.	85.	210.	8.5	163.	.8	MAXIMUM
AVERAGE		320.	171.	145.8	17.*	40.4		103.6		MOYENNE
STD.DEV.		129.	69.	44.6	19.*	49.2		28.1		ECART-TYPE
PERCNT:10TH		192.	104.	103.	L5.	2.5	7.9	74.2	-.1	10 <sup>e</sup> PERCNT
25TH		227.	121.	113.	5.	4.3	8.0	81.1	.1	25 <sup>e</sup>
MEDIAN 50TH		280.	143.	133.5	10.	21.5	8.1	96.5	.3	50 <sup>e</sup> MEDIANE
75TH		399.	218.	169.	20.	68.5	8.2	122.	.6	75 <sup>e</sup>
90TH		480.	244.	218.	50.	98.0	8.4	156.	.7	90 <sup>e</sup>

SECONDARY CODE

73L

CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0001	28(0)	33(0)	32(0)	6(0)	25(0)	25(0)	33(0)	33(0)	ECHANTILLONS(IND.)
LOW	0402	.4	.4	21.5	5.2	0.	86.	.0	12.6	MINIMUM
HIGH	0018	8.2	55.0	78.0	11.0	1.	199.	117.	65.4	MAXIMUM
AVERAGE	0056	1.2	6.0	42.14	8.2	0.	126.	10.8	32.8	MOYENNE
STD.DEV.		1.6	12.5	14.38	2.2	0.	35.	26.6	13.0	ECART-TYPE
PERCNT:10TH		.5	.6	27.4		0.	90.	.3	18.8	10 <sup>e</sup> PERCNT
25TH		.6	.9	33.00	5.7	0.	99.	.5	23.9	25 <sup>e</sup>
MEDIAN 50TH		.7	1.2	38.10	8.8	0.	116.	.9	30.1	50 <sup>e</sup> MEDIANE
75TH		1.0	1.8	50.25	9.5	0.	149.	1.3	41.4	75 <sup>e</sup>
90TH		3.3	18.8	64.4		1.	190.	38.0	49.2	90 <sup>e</sup>

SECONDARY CODE

05L

01L

07L 06L

01L 05L 06L\* CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0001	4(0)	23(1)			5(1)	26(0)	8(0)	15(0)	ECHANTILLONS(IND.)
LOW	0018	.1	L.005			.003	1.8	2.	.07	MINIMUM
HIGH	0056	.5	6.00			.11	6.0	9.0	.76	MAXIMUM
AVERAGE		.3	.497*			.046*	4.37	4.4	.17	MOYENNE
STD.DEV.		.2	1.453*			.054*	.90	2.5	.22	ECART-TYPE
PERCNT:10TH			.036				3.5		.07	10 <sup>e</sup> PERCNT
25TH		.2	.041			L.005	3.9	2.0	.08	25 <sup>e</sup>
MEDIAN 50TH		.4	.057			.011	4.35	4.0	.09	50 <sup>e</sup> MEDIANE
75TH		.5	.100			.10	4.8	6.0	.10	75 <sup>e</sup>
90TH			.210				5.7		.64	90 <sup>e</sup>

SECONDARY CODE

05L

13L

04L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## LIARD RIVER SUB BASIN

STATION 00NW10EC0001 LAT 61 D 15M 0 S LONG. 124 D 2M 0 S

UTM 10 444000E 6791000 N  
MAY 27 1969 TO/A OCT 29 1974SOUTH NAHANNI RIVER ABOVE CLAUSEN  
CREEK NORTHWEST TERRITORIES

	04301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25105P MANGANESE EXTRBL.	27102P COBALT EXTRBL.	
SAMPLES(FLAGS)	FORM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	CO MG/L	
0001				2(0)		2(2)	12(11)	2(1)	ECHANTILLONS(IND.)
LOW	0018			.063		L.015	L.001	.003	MINIMUM
HIGH	0402			1.8		L.015	.01	L.005	MAXIMUM
AVERAGE	0056			.932			.006*	.022*	MOYENNE
STD.DEV.				1.228			.005*	.028*	ECART-TYPE
PERCNT:10TH							L.001	L.01	10 <sup>e</sup> PERCNT
25TH							L.001	L.010	25 <sup>e</sup>
MEDIAN 50TH				.932		L.0150	L.010	L.010	50 <sup>e</sup> MEDIANE
75TH							L.010	.013*	75 <sup>e</sup>
90TH							L.01	.059	90 <sup>e</sup>
SECONDARY CODE				02P 03L		02P	05L 01L	04P 04L	CODE DE SECOURS

	26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33107L ARSENIC DISSOLVED	
SAMPLES(FLAGS)	FORM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
0402		20(5)	4(0)	4(0)	9(6)	13(11)	7(2)	13(9)	ECHANTILLONS(IND.)
LOW	0018	L.001	.06	.006	L.001	L.001	L.001	.008	MINIMUM
HIGH	0001	.167	3.4	.020	L.064	L.01	L.01	.036	MAXIMUM
AVERAGE	0056	.041*	1.237	.011	.017*	.008*	.004*	.012*	MOYENNE
STD.DEV.		.045*	1.484	.006	.027*	.003*	.003*	.007*	ECART-TYPE
PERCNT:10TH		L.001				.002		L.01	10 <sup>e</sup> PERCNT
25TH		.010	.315	.007	L.001	.007	.002	L.01	25 <sup>e</sup>
MEDIAN 50TH		.025	.745	.010	.001	L.01	.002	L.01	50 <sup>e</sup> MEDIANE
75TH		.056*	2.160	.016	.014	L.01	.007	L.01	75 <sup>e</sup>
90TH		.111				L.01		.018	90 <sup>e</sup>
SECONDARY CODE		07L 02L	04P		07L	06L 06P	04L 07L	04L 04P	CODE DE SECOURS

	48301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82102P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
SAMPLES(FLAGS)	FORM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	
0001				2(2)	2(2)	8(6)	13(11)	21(0)	ECHANTILLONS(IND.)
LOW	0402			L.001	L.001	L.001	L.004	4.	MINIMUM
HIGH	0018			L.001	L.002	L.207	L.01	497.	MAXIMUM
AVERAGE	0056					.027*	.009*	99.	MOYENNE
STD.DEV.						.073*	.002*	119.	ECART-TYPE
PERCNT:10TH							.004	10.	10 <sup>e</sup> PERCNT
25TH						L.001	.008	21.	25 <sup>e</sup>
MEDIAN 50TH				L.001	L.001	L.001	L.01	40.	50 <sup>e</sup> MEDIANE
75TH						.004	L.01	140.	75 <sup>e</sup>
90TH							L.01	186.	90 <sup>e</sup>
SECONDARY CODE				04L 01L	01P	04L	01L	04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB BASIN

STATION **00NW10ED0001** LAT. **60 D 14 M 35 S** LONG. **123 D 28 M 45 S**UTM **10 473400E 6678400 N**  
JUN 21, 1960 TO/A APR 18, 1974LIARD RIVER AT FORT LIARD,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE /CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	0001	49(0)	45(0)	33(0)	34(0)	48(1)	48(0)	46(0)	45(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0440	144.	76.	73.9	5.	L.1	7.5	49.9	-.7	<b>MINIMUM</b>
<b>HIGH</b>	0017	446.	280.	235.	300.	330.	8.4	191.	.9	<b>MAXIMUM</b>
<b>AVERAGE</b>		297.	166.	154.3	49.	38.0*		121.9		<b>MOYENNE</b>
<b>STD.DEV.</b>		83.	50.	50.3	54.	78.7*		37.4		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		191.	100.	91.7	5.	1.0	7.6	68.9	-.3	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		235.	131.	110.	15.	2.6	7.7	92.7	-.1	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		286.	164.	154.	30.	6.5	7.9	123.0	.2	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		379.	205.	196.	80.	27.0	8.1	155.	.4	<b>75<sup>e</sup></b>
<b>90TH</b>		427.	237.	216.	100.	150.	8.2	176.	.6	<b>90<sup>e</sup></b>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	0440	49(0)	60(0)	60(0)	26(0)	45(0)	45(0)	58(1)	58(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	.4	.7	20.5	4.6	0.	61.	.2	7.4	<b>MINIMUM</b>
<b>HIGH</b>	0402	2.4	12.3	77.9	17.7	3.	233.	8.6	60.2	<b>MAXIMUM</b>
<b>AVERAGE</b>	0017	1.2	4.3	41.52	9.9	0.	150.	1.6*	30.5	<b>MOYENNE</b>
<b>STD.DEV.</b>		.5	2.8	12.83	3.0	0.	45.	1.2*	11.6	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.6	2.1	28.35	6.7	0.	84.	.5	18.1	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.7	2.6	31.40	7.8	0.	114.	.9	22.1	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		1.0	3.2	38.35	9.7	0.	150.	1.3	26.1	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		1.5	5.4	52.90	11.1	0.	189.	1.8	39.6	<b>75<sup>e</sup></b>
<b>90TH</b>		2.0	8.9	60.60	13.3	0.	215.	2.6	47.3	<b>90<sup>e</sup></b>
SECONDARY CODE		01L	01L 05L	01L 02L				07L 01L 06L	05L 04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	F MG/L	
<b>SAMPLES(FLAGS)</b>	0001	2(2)	26(2)			2(0)	46(0)	5(0)	16(2)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0440	L.5	L.005			.007	2.5	1.0	L.05	<b>MINIMUM</b>
<b>HIGH</b>	0017	L.5	.670			.007	9.3	22.0	.23	<b>MAXIMUM</b>
<b>AVERAGE</b>			.124*			.007	5.31	10.8	.11*	<b>MOYENNE</b>
<b>STD.DEV.</b>			.154*			.000	1.53	8.9	.05*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			.010				3.4		.06	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			.040				4.3	5.0	.07	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.5	.074			.007	5.45	8.0	.09*	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			.136				6.10	18.	.13	<b>75<sup>e</sup></b>
<b>90TH</b>			.271				7.1		.22	<b>90<sup>e</sup></b>
SECONDARY CODE			05L			13L	01L		02L 04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION 00NW10ED0001 LAT 60 D 14 M 35 S LONG 123 D 28 M 45 S

UTM 10 473400E 6678400 N  
OCT 22 1962 TO/A JUN 05 1973LIARD RIVER AT FORT LIARD  
NORTHWEST TERRITORIES

		04301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13301P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
		LI	B	AL	V	CR	MN	MN	CO	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	2(0)	2(0)	2(1)	2(2)	2(2)	20(15)	2(1)	2(2)	ECHANTILLONS(IND.)
LOW	0440	.006	.02	L.10	L.05	L.010	L.001	L.01	L.001	MINIMUM
HIGH	0402	.006	.03	.14	L.05	L.010	.031	.02	L.001	MAXIMUM
AVERAGE	0017	.006	.03	.120*			.008*	.015*		MOYENNE
STD.DEV.		.000	.01	.028*			.007*			ECART-TYPE
PERCENT:10TH							L.001			10 <sup>e</sup> PERCNT
25TH							L.001			25 <sup>e</sup>
MEDIAN 50TH		.006	.03	.120*	L.0500	L.0100	L.010	.015*	L.001	50 <sup>e</sup> MEDIANE
75TH							L.010			75 <sup>e</sup>
90TH							.010			90 <sup>e</sup>
SECONDARY CODE			05L	02P		02P	01L 05L 07L	04P		CODE DE SECOURS

		26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
		FE	FE	NI	CU	CU	ZN	ZN	AS	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0402	20(4)	2(0)	2(2)	15(5)	2(0)	15(9)	2(0)	3(3)	ECHANTILLONS(IND.)
LOW	0001	L.001	.08	L.001	L.001	.001	L.001	.002	L.005	MINIMUM
HIGH	0440	.34	.13	L.001	L.064	.002	.015	.002	L.08	MAXIMUM
AVERAGE	0017	.092*	.105		.011*	.002	.005*	.002		MOYENNE
STD.DEV.		.100*	.035		.016*	.001	.005*	.000		ECART-TYPE
PERCENT:10TH		L.001			.001		L.001			10 <sup>e</sup> PERCNT
25TH		.015			.002		L.001			25 <sup>e</sup>
MEDIAN 50TH		.060	.105	L.001	L.01	.002	.001	.002	L.005	50 <sup>e</sup> MEDIANE
75TH		.155			.014		L.01			75 <sup>e</sup>
90TH		.250			.016		.01			90 <sup>e</sup>
SECONDARY CODE		02L 07L 01L	04P		07L 06L		07L 04L		05L	CODE DE SECOURS

		38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
		SR	MO	CD	CD	PB	PB			
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0402	2(0)	2(2)	7(7)	2(2)	16(13)	2(2)	25(0)	14(2)	ECHANTILLONS(IND.)
LOW	0001	.15	L.05	L.001	L.001	L.001	L.001	1.	L.1	MINIMUM
HIGH	0440	.25	L.05	L.001	L.001	L.207	L.001	555.	200.	MAXIMUM
AVERAGE		.20				.024*		100.	37.*	MOYENNE
STD.DEV.		.07				.052*		142.	61.*	ECART-TYPE
PERCENT:10TH						L.001		3.	L.1	10 <sup>e</sup> PERCNT
25TH				L.001		L.001		7.	2.	25 <sup>e</sup>
MEDIAN 50TH		.20	L.0500	L.001	L.001	L.002	L.001	32.	8.	50 <sup>e</sup> MEDIANE
75TH				L.001		L.030		148.	31.	75 <sup>e</sup>
90TH						L.05		298.	128.	90 <sup>e</sup>
SECONDARY CODE			01P	00L		04L 01L 02L		04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION 00NW10ED0002 LAT. 61 D 44 M 24 S LONG. 121 D 13 M 11 S

UTM 10 594050E 6846300 N  
AUG 10, 1960 TO/A OCT 16, 1979LIARD RIVER ABOVE FORT SIMPSON,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
SAMPLES(FLAGS)	0124	39(0)	41(0)	41(0)	48(6)	50(0)	43(0)	47(0)	39(0)	ECHANTILLONS(IND.)
LOW	0017	161.	90.	71.6	L5.	1.2	7.4	63.0	-.5	MINIMUM
HIGH	0440	435.	237.	226.	350.	600.	8.5	210.	.9	MAXIMUM
AVERAGE	0056	287.	151.	142.7	59.*	94.9		118.3		MOYENNE
STD.DEV.	0001	90.	50.	48.6	80.*	131.9		42.5		ECART-TYPE
PERCNT:10TH		186.	97.	89.0	L5.	2.3	7.7	72.6	-.3	10 <sup>e</sup> PERCNT
25TH		213.	106.	99.6	10.	6.7	7.9	80.0	-.1	25 <sup>e</sup>
MEDIAN 50TH		263.	132.	127.	20.	40.0	8.0	101.	.1	50 <sup>e</sup> MEDIANE
75TH		395.	196.	200.	75.	150.	8.2	167.	.4	75 <sup>e</sup>
90TH		420.	226.	210.	130.	225.0	8.2	175.	.8	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73L 71L		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0124	46(0)	46(0)	50(0)	10(0)	40(0)	40(0)	50(0)	50(0)	ECHANTILLONS(IND.)
LOW	0017	.5	1.2	27.0	6.6	0.	77.	.4	7.7	MINIMUM
HIGH	0056	3.8	7.2	65.5	17.2	1.	255.	7.5	46.0	MAXIMUM
AVERAGE	0440	.9	2.8	42.35	9.2	0.	138.	1.8	28.5	MOYENNE
STD.DEV.	0001	.5	1.4	12.19	3.4	0.	50.	1.5	9.3	ECART-TYPE
PERCNT:10TH		.6	1.4	29.05	6.6	0.	87.	.5	17.8	10 <sup>e</sup> PERCNT
25TH		.6	1.7	31.6	6.7	0.	95.	.7	21.0	25 <sup>e</sup>
MEDIAN 50TH		.8	2.3	38.20	7.9	0.	121.	1.2	26.2	50 <sup>e</sup> MEDIANE
75TH		1.0	4.1	55.6	11.4	0.	201.	2.7	37.	75 <sup>e</sup>
90TH		1.2	4.7	60.00	14.4	0.	210.	3.5	41.6	90 <sup>e</sup>
SECONDARY CODE		01L	01L	01F 01L 02L				06L 01L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0124	30(15)	40(3)	3(3)	3(3)	41(2)	46(0)	33(2)	42(4)	ECHANTILLONS(IND.)
LOW	0001	L1	L.001	L.003	L.003	L.005	2.7	L.5	L.05	MINIMUM
HIGH	0017	2.3	.85	L.003	L.003	1.30	6.70	46.0	.19	MAXIMUM
AVERAGE	0440	.7*	.116*			.185*	5.04	10.8*	.09*	MOYENNE
STD.DEV.	0056	.5*	.145*			.281*	1.16	10.2*	.03*	ECART-TYPE
PERCNT:10TH		.4*	.013			.006	3.3	3.0	.06	10 <sup>e</sup> PERCNT
25TH		L.5	.038			.015	4.10	4.0	.07	25 <sup>e</sup>
MEDIAN 50TH		L.5	.090	L.003	L.003	.029	4.90	7.0	.08	50 <sup>e</sup> MEDIANE
75TH		.7	.135			.320	6.3	12.0	.10	75 <sup>e</sup>
90TH		1.7	.220			.570	6.6	25.0	.11	90 <sup>e</sup>
SECONDARY CODE		02L	05L 06F			13F 11L 13L	01L 05L		06L 02L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## LIARD RIVER SUB BASIN

STATION 00NW10ED0002 LAT. 61 D 44 M 24 S LONG. 121 D 13 M 11 S

UTM 10 594050 6846300 N  
AUG 10 1960 TO/A OCT 16 1979LIARD RIVER ABOVE FORT SIMPSON  
NORTHWEST TERRITORIES

		03301P LITHIUM EXTRBLE. LI MG/L	05103L BORON DISSOLVED B MG/L	13303P ALUMINIUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24303P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25305P MANGANESE EXTRBLE. MN MG/L	27102P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS)	0017	28(2)	30(3)	8(3)	31(26)	34(32)	9(9)	39(6)	38(12)	ECHANTILLONS(IND.)
LOW	0124	L.005	L.01	L.1	L.001	L.010	L.010	L.006	L.001	MINIMUM
HIGH	0001	.026	.58	3.7	.14	.026	L.01	.47	.016	MAXIMUM
AVERAGE	0056	.009*	.07*	1.066*	.0534*	.0115*		.125*	.004*	MOYENNE
STD.DEV.	0440	.005*	.11*	1.352*	.0292*	.0039*		.137*	.003*	ECART-TYPE
PERCNT:10TH		.005	.02*		L.05	L.010		L.01	L.001	10 <sup>e</sup> PERCNT
25TH		.006	.03	L.100	L.05	L.010	L.010	.02	L.001	25 <sup>e</sup>
MEDIAN 50TH		.007	.04	.415	L.05	L.0100	L.010	.08	.002	50 <sup>e</sup> MEDIANE
75TH		.009	.07	1.850	L.05	L.010	L.01	.21	.005	75 <sup>e</sup>
90TH		.015	.12		L.05	L.015		.38	.008	90 <sup>e</sup>
SECONDARY CODE			05L 01L 02L	02P 05P	01L 01P	02P 02L	01L	04P		CODE DE SECOURS

		26104L IRON DISSOLVED FE MG/L	26305P IRON EXTRBLE. FE MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0001	10(1)	44(2)	36(8)	4(0)	44(11)	4(0)	44(6)	26(17)	ECHANTILLONS(IND.)
LOW	0124	L.01	L.05	L.001	.002	L.001	.001	L.001	L.000	MINIMUM
HIGH	0440	.35	15.0	.051	.006	.024	.14	.27	.013	MAXIMUM
AVERAGE	0017	.065*	3.296*	.011*	.003	.007*	.036	.025*	.004*	MOYENNE
STD.DEV.	0056	.103*	4.427*	.010*	.002	.007*	.070	.042*	.003*	ECART-TYPE
PERCNT:10TH		.010*	.08	L.002		L.001		.003	L.000	10 <sup>e</sup> PERCNT
25TH		.01	.350	.004	.002	.002	.001	.006	.001	25 <sup>e</sup>
MEDIAN 50TH		.030	.845	.009	.002	.006	.001	L.010	L.005	50 <sup>e</sup> MEDIANE
75TH		.070	4.850	.015	.004	.010*	.071	.032	L.005	75 <sup>e</sup>
90TH		.215	10.9	.025		.018		.044	.006	90 <sup>e</sup>
SECONDARY CODE		02L 01L	04P 01L	01L		01L 06L	04L	04P 01L 04L	04L 01L	CODE DE SECOURS

		38301P STRONTIUM EXTRBLE. SR MG/L	42302P MOLYBDENUM EXTRBLE. MO MG/L	48102L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBLE. CD MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBLE. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR MG/L	
SAMPLES(FLAGS)	0001	29(0)	32(30)	1(1)	38(24)	4(3)	41(20)	19(1)	15(2)	ECHANTILLONS(IND.)
LOW	0124	.09	L.015	L.001	L.001	L.001	L.001	L.1	L.1	MINIMUM
HIGH	0017	.25	.31	L.001	.013	.006	L.05	1252.	1181.	MAXIMUM
AVERAGE	0056	.17	.0658*		.002*	.002*	.007*	337.*	316.*	MOYENNE
STD.DEV.	0440	.05	.0499*		.002*	.003*	.008*	405.*	414.*	ECART-TYPE
PERCNT:10TH		.12	L.05		L.001		L.001	4.	L.1	10 <sup>e</sup> PERCNT
25TH		.13	L.0500		L.001	L.001	.003	17.	13.	25 <sup>e</sup>
MEDIAN 50TH		.15	L.0500		L.001	L.001	L.005	134.	79.	50 <sup>e</sup> MEDIANE
75TH		.21	L.0500		.002	.003*	.007	675.	656.	75 <sup>e</sup>
90TH		.24	L.10		.003		.013	1158.	1066	90 <sup>e</sup>
SECONDARY CODE			01P 01L	01L			03L 01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION **00NW10ED0003** LAT. **61 D 2 M 30 S** LONG. **123 D 22 M 0 S**UTM **10 480200 E 6767300 N**

AUG 06, 1969 TO/À JAN 07, 1972

LIARD RIVER AT NAHANNI BUTTE 1.5  
MILES FROM JUNCTION WITH SOUTH NAHANNI

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>0440</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0056</b>	<b>248.</b>	<b>130.</b>	<b>126.</b>	<b>6.</b>	<b>1.6</b>	<b>8.0</b>	<b>98.9</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>409.</b>	<b>218.</b>	<b>201.</b>	<b>20.</b>	<b>11.0</b>	<b>8.2</b>	<b>162.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>329.</b>	<b>174.</b>	<b>163.5</b>	<b>13.</b>	<b>6.3</b>	<b>130.4</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>114.</b>	<b>62.</b>	<b>53.0</b>	<b>10.</b>	<b>6.6</b>	<b>44.6</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>329.</b>	<b>174.</b>	<b>163.5</b>	<b>13.</b>	<b>6.3</b>	<b>8.1</b>	<b>130.4</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE					73L				CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0056</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0440</b>	<b>.5</b>	<b>1.9</b>	<b>36.4</b>	<b>0.</b>	<b>121.</b>	<b>.2</b>	<b>23.3</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>1.0</b>	<b>3.7</b>	<b>58.7</b>	<b>1.</b>	<b>195.</b>	<b>2.4</b>	<b>41.4</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.8</b>	<b>2.8</b>	<b>47.55</b>	<b>1.</b>	<b>158.</b>	<b>1.3</b>	<b>32.3</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.4</b>	<b>1.3</b>	<b>15.77</b>	<b>1.</b>	<b>52.</b>	<b>1.6</b>	<b>12.8</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.8</b>	<b>2.8</b>	<b>47.55</b>	<b>1.</b>	<b>158.</b>	<b>1.3</b>	<b>32.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE			01L						CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	C MG/L	F MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0440</b>	<b>1(1)</b>	<b>2(0)</b>		<b>1(1)</b>	<b>2(0)</b>	<b>1(0)</b>	<b>2(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0056</b>	<b>L.5</b>	<b>.043</b>		<b>L.005</b>	<b>4.9</b>	<b>2.0</b>	<b>.09</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.5</b>	<b>.120</b>		<b>L.005</b>	<b>6.1</b>	<b>2.0</b>	<b>.09</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.082</b>			<b>5.50</b>		<b>.09</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.054</b>			<b>.85</b>		<b>.00</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>.082</b>			<b>5.50</b>		<b>.09</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE		05L			13L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## LIARD RIVER SUB BASIN

STATION 00NW10ED0003 LAT. 61 D 2 M 30 S LONG. 123 D 22 M 0 S

UTM 10 480200E 6767300N  
AUG 06 1969 TO/A JAN 07 1972LIARD RIVER AT NAHANNI BUTTE 1.5  
MILES FROM JUNCTION WITH SOUTH NAHANNI

		03301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINIUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS)	0056	1(0)	1(1)	1(1)	1(1)	1(1)	1(1)	1(0)	1(1)	ECHANTILLONS(IND.)
LOW	0440	.007	L.02	L.10	L.05	L.010	L.010	.02	L.001	MINIMUM
HIGH		.007	L.02	L.10	L.05	L.010	L.010	.02	L.001	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH										50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			05L	02P	01P	02P	01L	04P		CODE DE SECOURS

		26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0056	1(0)	1(0)	1(1)		2(2)		2(1)	1(1)	ECHANTILLONS(IND.)
LOW	0440	.010	.11	L.001		L.001		.002	L.005	MINIMUM
HIGH		.010	.11	L.001		L.01		L.01	L.005	MAXIMUM
AVERAGE								.006*		MOYENNE
STD.DEV.								.006*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH						L.005		.006*		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		02L	04P			01L		04L		CODE DE SECOURS

		38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0056	1(0)	1(1)	1(1)	1(1)		2(1)	1(0)		ECHANTILLONS(IND.)
LOW	0440	.25	L.05	L.001	L.001		L.001	24.		MINIMUM
HIGH		.25	L.05	L.001	L.001		.01	24.		MAXIMUM
AVERAGE							.005*			MOYENNE
STD.DEV.							.006*			ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH							.005*			50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			01P	01L			01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION **00NW10ED0004** LAT. **61 D 2 M 30 S** LONG. **123 D 24 M 0 S**UTM **10 478400E 6767300 N**  
MAR 02, 1972 TO/A OCT 29, 1974SOUTH NAHANNI RIVER AT NAHANNI BUTTE,  
NORTHWEST TERRITORIES

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>17(0)</b>	<b>21(0)</b>	<b>27(0)</b>	<b>27(8)</b>	<b>28(0)</b>	<b>21(0)</b>	<b>28(0)</b>	<b>21(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>82.</b>	<b>41.</b>	<b>35.9</b>	<b>L5.</b>	<b>.9</b>	<b>7.6</b>	<b>24.6</b>	<b>-1.4</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>489.</b>	<b>262.</b>	<b>235.</b>	<b>200.</b>	<b>160.</b>	<b>8.3</b>	<b>178.</b>	<b>.8</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>298.</b>	<b>153.</b>	<b>148.9</b>	<b>44.*</b>	<b>54.7</b>		<b>113.7</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>117.</b>	<b>61.</b>	<b>54.0</b>	<b>59.*</b>	<b>54.4</b>		<b>42.5</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>183.</b>	<b>99.</b>	<b>93.8</b>	<b>L5.</b>	<b>1.5</b>	<b>7.9</b>	<b>73.2</b>	<b>-.1</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>210.</b>	<b>108.</b>	<b>106.</b>	<b>L5.</b>	<b>2.7</b>	<b>8.0</b>	<b>82.5</b>	<b>.1</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>262.</b>	<b>131.</b>	<b>130.</b>	<b>10.</b>	<b>39.0</b>	<b>8.1</b>	<b>99.8</b>	<b>.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>398.</b>	<b>208.</b>	<b>201.</b>	<b>80.</b>	<b>102.5</b>	<b>8.2</b>	<b>161.5</b>	<b>.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>472.</b>	<b>249.</b>	<b>228.</b>	<b>150.</b>	<b>155.</b>	<b>8.3</b>	<b>173.</b>	<b>.7</b>	<b>90<sup>e</sup></b>
SECONDARY CODE			03F	11F	73L		01F		CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>28(0)</b>	<b>28(0)</b>	<b>28(0)</b>	<b>1(0)</b>	<b>20(0)</b>	<b>20(0)</b>	<b>28(0)</b>	<b>28(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.2</b>	<b>.9</b>	<b>9.8</b>	<b>9.8</b>	<b>0.</b>	<b>30.</b>	<b>.3</b>	<b>11.7</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>5.5</b>	<b>6.0</b>	<b>72.8</b>	<b>9.8</b>	<b>0.</b>	<b>217.</b>	<b>9.1</b>	<b>55.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.9</b>	<b>2.4</b>	<b>44.64</b>		<b>0.</b>	<b>132.</b>	<b>2.8</b>	<b>34.0</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.9</b>	<b>1.5</b>	<b>16.15</b>		<b>0.</b>	<b>54.</b>	<b>2.4</b>	<b>13.4</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.5</b>	<b>1.0</b>	<b>29.8</b>		<b>0.</b>	<b>86.</b>	<b>.8</b>	<b>18.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.6</b>	<b>1.3</b>	<b>32.55</b>		<b>0.</b>	<b>96.</b>	<b>1.2</b>	<b>23.5</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.8</b>	<b>1.7</b>	<b>39.65</b>		<b>0.</b>	<b>110.</b>	<b>1.7</b>	<b>30.6</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.8</b>	<b>3.2</b>	<b>60.70</b>		<b>0.</b>	<b>185.</b>	<b>3.8</b>	<b>47.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.1</b>	<b>5.0</b>	<b>69.4</b>		<b>0.</b>	<b>211.</b>	<b>7.3</b>	<b>52.5</b>	<b>90<sup>e</sup></b>
SECONDARY CODE			01F 01L				06L	04L 06L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC - C	09105L FLUORIDE DISSOLVED	
SUBM ID	N MG/L	MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	MG/L	F MG/L	
<b>SAMPLES(FLAGS)</b>	<b>24(11)</b>	<b>27(2)</b>	<b>3(3)</b>	<b>3(3)</b>	<b>27(5)</b>	<b>28(0)</b>	<b>27(0)</b>	<b>25(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.1</b>	<b>L.001</b>	<b>L.003</b>	<b>L.003</b>	<b>.003</b>	<b>1.6</b>	<b>1.0</b>	<b>L.05</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>3.6</b>	<b>.580</b>	<b>L.003</b>	<b>L.003</b>	<b>1.10</b>	<b>8.5</b>	<b>34.0</b>	<b>.12</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.8*</b>	<b>.119*</b>			<b>.157*</b>	<b>4.44</b>	<b>8.6</b>	<b>.08*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.8*</b>	<b>.115*</b>			<b>.245*</b>	<b>1.47</b>	<b>9.0</b>	<b>.02*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.4</b>	<b>.030</b>			<b>L.005</b>	<b>2.7</b>	<b>1.0</b>	<b>.05</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.5</b>	<b>.050</b>			<b>L.005</b>	<b>3.40</b>	<b>2.0</b>	<b>.07</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.5</b>	<b>.100</b>	<b>L.003</b>	<b>L.003</b>	<b>.043</b>	<b>4.50</b>	<b>5.</b>	<b>.08</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.7</b>	<b>.130</b>			<b>.210</b>	<b>5.55</b>	<b>12.0</b>	<b>.09</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.0</b>	<b>.200</b>			<b>.400</b>	<b>5.9</b>	<b>22.0</b>	<b>.10</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L	05L 06F			13F 13L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## LIARD RIVER SUB BASIN

STATION 00NW10ED0004 LAT. 61 D 2 M 30 S LONG. 123 D 24 M 0 S

UTM 10 478400E 6767300N

MAR 02 1972 TO/A OCT 29 1974

SOUTH NAHANNI RIVER AT NAHANNI BUTTE  
NORTHWEST TERRITORIES

		03303P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS)	0124	26(3)	23(4)		24(22)	26(25)		28(0)	27(8)	ECHANTILLONS(IND.)
LOW	0018	L.005	L.01		L.05	L.010		.009	L.001	MINIMUM
HIGH		.069	.10		.36	.060		.69	.022	MAXIMUM
AVERAGE		.010*	.04*		.0650*	.0125*		.103	.004*	MOYENNE
STD.DEV.		.012*	.03*		.0637*	.0098*		.151	.005*	ECART-TYPE
PERCNT:10TH		L.005	L.02		L.05	L.010		.01	L.001	10 <sup>e</sup> PERCNT
25TH		.005	.02		L.0500	L.010		.025	.001	25 <sup>e</sup>
MEDIAN 50TH		.008	.04		L.0500	L.0100		.047	.003	50 <sup>e</sup> MEDIANE
75TH		.010	.06		L.0500	L.010		.110	.004	75 <sup>e</sup>
90TH		.010	.08		L.05	L.015		.20	.008	90 <sup>e</sup>
SECONDARY CODE			05L 02L		01P	02P		04P		CODE DE SECOURS

		26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0124	1(0)	28(1)	27(1)		28(6)		28(1)	22(12)	ECHANTILLONS(IND.)
LOW	0018	.040	L.05	L.001		L.001		.002	L.000	MINIMUM
HIGH		.040	27.0	.056		.030		.079	.009	MAXIMUM
AVERAGE			2.618*	.013*		.005*		.019*	.005*	MOYENNE
STD.DEV.			5.212*	.012*		.006*		.018*	.003*	ECART-TYPE
PERCNT:10TH			.08	.003		L.001		.004	.001	10 <sup>e</sup> PERCNT
25TH			.140	.005		.001		.007	L.004	25 <sup>e</sup>
MEDIAN 50TH			1.365	.010		.003		.019	L.005	50 <sup>e</sup> MEDIANE
75TH			2.140	.017		.007		.023	.005	75 <sup>e</sup>
90TH			5.50	.024		.012		.05	.009	90 <sup>e</sup>
SECONDARY CODE		02L	04P			06P		04P	04L	CODE DE SECOURS

		38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	26(0)	25(25)	1(0)	27(14)		27(13)	13(0)	13(0)	ECHANTILLONS(IND.)
LOW	0018	.03	L.05	.001	L.001		L.001	24.	18.	MINIMUM
HIGH		.33	L.10	.001	.004		.049	1417.	1300.	MAXIMUM
AVERAGE		.20			.001*		.006*	275.	248.	MOYENNE
STD.DEV.		.07			.001*		.010*	376.	347.	ECART-TYPE
PERCNT:10TH		.15	L.05		L.001		L.001	28.	23.	10 <sup>e</sup> PERCNT
25TH		.16	L.05		L.001		L.001	66.	52.	25 <sup>e</sup>
MEDIAN 50TH		.19	L.05		.001		L.004	155.	132.	50 <sup>e</sup> MEDIANE
75TH		.25	L.05		.002		.008	277.	246.	75 <sup>e</sup>
90TH		.29	L.10		.002		.013	553.	519.	90 <sup>e</sup>
SECONDARY CODE				01P	02P					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION **00NW10ED0005** LAT. **60 D 19 M 0 S** LONG. **123 D 20 M 0 S**UTM **10 482000E 6687000 N**  
MAR 02, 1972 TO/A OCT 29, 1974LIARD RIVER ABOUT 8.5 MILES BELOW  
FORT LIARD, NORTHWEST TERRITORIES

SUBM ID	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	ECHANTILLONS(IND.)
	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b> 0124	17(0)	21(1)	27(0)	26(5)	27(0)	20(0)	27(0)	20(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	127.	Q70.	55.4	L5.	.8	7.7	21.2	Q -1.1	<b>MINIMUM</b>
<b>HIGH</b>	435.	247.	229.	350.	200.	8.3	189.	1.0	<b>MAXIMUM</b>
<b>AVERAGE</b>	267.	136.*	133.5	70.*	61.6		106.3		<b>MOYENNE</b>
<b>STD.DEV.</b>	97.	52.*	49.5	93.*	66.2		44.0		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	161.	87.	85.8	L5.	1.4	7.7	63.7	-.3	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	192.	102.	93.3	10.	6.0	7.8	71.9	-.2	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	251.	117.	118.	25.	37.0	8.0	97.4	.1	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	360.	150.	194.	100.	120.	8.2	157.	.4	<b>75<sup>e</sup></b>
<b>90TH</b>	407.	213.	205.	200.	160.	8.2	171.	.7	<b>90<sup>e</sup></b>
SECONDARY CODE			03F	11F	73L 71L		01F		CODE DE SECOURS

SUBM ID	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	ECHANTILLONS(IND.)
	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b> 0124	27(0)	27(1)	27(0)	1(0)	21(0)	21(0)	27(0)	27(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.4	L.1	18.8	6.7	0.	26.	.3	12.0	<b>MINIMUM</b>
<b>HIGH</b>	2.1	3.7	97.6	6.7	0.	230.	2.1	44.3	<b>MAXIMUM</b>
<b>AVERAGE</b>	.8	2.3*	40.81		0.	121.	.8	28.4	<b>MOYENNE</b>
<b>STD.DEV.</b>	.3	.9*	17.14		0.	54.	.5	9.1	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	.6	1.4	25.7		0.	78.	.3	16.0	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.7	1.7	28.7		0.	84.	.5	21.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.8	2.2	36.6		0.	102.	.7	26.1	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.9	3.0	52.7		0.	137.	1.0	36.0	<b>75<sup>e</sup></b>
<b>90TH</b>	1.1	3.6	61.0		0.	202.	1.3	42.1	<b>90<sup>e</sup></b>
SECONDARY CODE			01F 01L				06L	04L 06L	CODE DE SECOURS

SUBM ID	07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	ECHANTILLONS(IND.)
	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	C MG/L	F MG/L	
<b>SAMPLES(FLAGS)</b> 0124	23(9)	24(3)	3(3)	3(3)	25(3)	27(0)	27(1)	26(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.2	L.001	L.003	L.003	L.005	.7	L.5	L.05	<b>MINIMUM</b>
<b>HIGH</b>	2.1	.250	L.003	L.003	.640	7.6	34.0	.10	<b>MAXIMUM</b>
<b>AVERAGE</b>	.8*	.082*			.164*	4.93*	10.1*	.08*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.5*	.067*			.208*	1.53	9.8*	.02*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.5	L.001			L.005	3.1	2.0	L.05	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.5	.030			.012	3.8	3.0	.06	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.6	.060	L.003	L.003	.082	5.0	6.0	.08	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	1.1	.135			.220	6.3	16.0	.09	<b>75<sup>e</sup></b>
<b>90TH</b>	1.5	.150			.550	6.6	30.0	.10	<b>90<sup>e</sup></b>
SECONDARY CODE	02L	06F 05L			13L 13F				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## LIARD RIVER SUB-BASIN

STATION 00NW10ED0005 LAT. 60 D 19 M 0 S LONG. 123 D 20 M 0 S

UTM 10 482000E 6687000 N  
MAR 02 1972 TO/A OCT 29 1974LIARD RIVER ABOUT 8.5 MILES BELOW  
FORT LIARD NORTHWEST TERRITORIES

	03301P LITHIUM EXTRBLE	05103L BORON DISSOLVED	13303P ALUMINIUM EXTRBLE	23302P VANADIUM EXTRBLE	24303P CHROMIUM EXTRBLE	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBLE	27302P COBALT EXTRBLE	
SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS) 0124	26(7)	22(0)		24(21)	26(22)		27(2)	25(4)	ECHANTILLONS(IND.)
LOW	L.005	.01		L.05	L.010		L.01	L.001	MINIMUM
HIGH	.021	.36		.11	.020		.40	.023	MAXIMUM
AVERAGE	.007*	.06		.0554*	.0113*		.103*	.004*	MOYENNE
STD.DEV.	.004*	.07		0169*	.0030*		.116*	.005*	ECART-TYPE
PERCNT:10TH	L.005	.02		L.05	L.010		.01	L.001	10 <sup>e</sup> PERCNT
25TH	L.005	.03		L.0500	L.010		.01	.001	25 <sup>e</sup>
MEDIAN 50TH	.006	.05		L.0500	L.0100		.05	.002	50 <sup>e</sup> MEDIANE
75TH	.007	.07		L.0500	L.010		.18	.003	75 <sup>e</sup>
90TH	.010	.08		.06	L.015		.31	.010	90 <sup>e</sup>
SECONDARY CODE		05L 02L		02P	02P		02P		CODE DE SECOURS

	26104L IRON DISSOLVED	26305P IRON EXTRBLE	28302P NICKEL EXTRBLE	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE	30105L ZINC DISSOLVED	30305P ZINC EXTRBLE	33103L ARSENIC DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS) 0124	1(0)	27(0)	25(3)		27(7)		27(2)	19(14)	ECHANTILLONS(IND.)
LOW	.020	.06	L.001		L.001		L.001	L.000	MINIMUM
HIGH	.020	12.8	.036		.024		.050	.020	MAXIMUM
AVERAGE		2.736	.010*		.006*		.013*	.005*	MOYENNE
STD.DEV.		3.365	.009*		.006*		.015*	.004*	ECART-TYPE
PERCNT:10TH		.08	L.001		L.001		.001	L.000	10 <sup>e</sup> PERCNT
25TH		.18	.004		L.001		.003	.001	25 <sup>e</sup>
MEDIAN 50TH		.95	.007		.003		.007	L.005	50 <sup>e</sup> MEDIANE
75TH		5.50	.014		.010		.021	L.005	75 <sup>e</sup>
90TH		7.80	.021		.015		.04	.010	90 <sup>e</sup>
SECONDARY CODE	02L	02L					02P	02P	CODE DE SECOURS

	18301P STRONTIUM EXTRBLE	42302P MOLYBDENUM EXTRBLE	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE	10401L RESIDUE NONFILTR	RESIDUE FIXED NONFILTR	
SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0124	26(0)	25(25)		25(15)		27(10)	15(1)	15(1)	ECHANTILLONS(IND.)
LOW	.03	L.05		L.001		L.001	L.1	L.1	MINIMUM
HIGH	.25	L.10		.013		.016	664.	604.	MAXIMUM
AVERAGE	.15			.002*		.005*	186.*	167.*	MOYENNE
STD.DEV.	.05			.002*		.004*	253.*	231.*	ECART-TYPE
PERCNT:10TH	.09	L.05		L.001		L.001	.4	.3	10 <sup>e</sup> PERCNT
25TH	.12	L.05		L.001		L.001	.15	.10	25 <sup>e</sup>
MEDIAN 50TH	.13	L.05		L.001		.004	54.	45.	50 <sup>e</sup> MEDIANE
75TH	.20	L.05		.001		.007	363	325	75 <sup>e</sup>
90TH	.22	L.05		.003		.011	626	570	90 <sup>e</sup>
SECONDARY CODE		02P							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION 00NW10ED0007 LAT. 61 D 50 M 45 S LONG. 121 D 17 M 25 S

UTM 10 590000E 6858000 N  
MAY 26, 1971 TO/À OCT 04, 1973LIARD RIVER ABOUT 150 METRES UPSTREAM  
FROM JUNCTION OF LIARD AND MACKENZIE

		02041F SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02075S TURBIDITY LIGHT PENETR. SECCHI DSC	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED	14201L SILICON SOL. ORTHO SILICATE	08101F OXYGEN DISSOLVED	
	SUBM ID	USIE/CM	USIE/CM	M	PH UNITS	N MG/L	P MG/L	SI MG/L	O2 MG/L	
SAMPLES(FLAGS)	0402	8(0)	21(0)	24(1)	26(0)	27(0)	27(2)	27(0)	20(0)	ECHANTILLONS(IND.)
LOW		125.	100.	L.02	7.7	.07	.001	.64	5.0	MINIMUM
HIGH		222.	440.	.60	8.7	.76	.083	2.65	11.2	MAXIMUM
AVERAGE		162.	215.	.16*		.33	.019*	1.89	9.4	MOYENNE
STD.DEV.		31.	68.	.15*		.20	.017*	.55	1.7	ECART-TYPE
PERCNT:10TH			159.	.04	7.7	.15	.003	.87	6.6	10 <sup>e</sup> PERCNT
25TH		135.	175.	.06	7.8	.17	.009	1.74	8.9	25 <sup>e</sup>
MEDIAN 50TH		165.	200.	.11	8.0	.25	.016	1.98	9.9	50 <sup>e</sup> MEDIANE
75TH		175.	245.	.16	8.2	.43	.022	2.30	10.5	75 <sup>e</sup>
90TH			275.	.35	8.3	.63	.033	2.41	11.1	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19105L POTASSIUM DISSOLVED	11105L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06202F BICARBONT. LAB CALC.	17207L CHLORIDE DISSOLVED	16305L SULPHATE DISSOLVED	25105L MANGANESE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	HC03 MG/L	CL MG/L	SO4 MG/L	MN MG/L	
SAMPLES(FLAGS)	0402	28(0)	28(0)	28(0)	28(0)	26(0)	25(7)	25(0)	18(11)	ECHANTILLONS(IND.)
LOW		.5	1.6	22.4	4.7	92.	.2	11.2	L.001	MINIMUM
HIGH		1.1	6.1	61.0	18.5	307.	7.2	36.0	.028	MAXIMUM
AVERAGE		.8	2.5	32.09	8.2	164.	1.5*	21.9	.006*	MOYENNE
STD.DEV.		.2	1.1	9.22	3.2	59.	1.7*	6.4	.008*	ECART-TYPE
PERCNT:10TH		.6	1.6	23.9	5.8	98.	L.3	15.9	L.001	10 <sup>e</sup> PERCNT
25TH		.6	1.8	25.40	6.3	112.	L.3	17.6	L.001	25 <sup>e</sup>
MEDIAN 50TH		.7	2.0	30.60	7.5	162.	.9	20.7	L.001	50 <sup>e</sup> MEDIANE
75TH		.9	2.6	34.70	9.0	201.	1.8	24.6	.010	75 <sup>e</sup>
90TH		1.1	4.2	39.4	11.9	242.	4.2	31.8	.022	90 <sup>e</sup>
SECONDARY CODE									07L	CODE DE SECOURS

		25305L MANGANESE EXTRBLE.	26104L IRON DISSOLVED	29107L COPPER DISSOLVED	30107L ZINC DISSOLVED	33105L ARSENIC DISSOLVED	48103L CADMIUM DISSOLVED	82104L LEAD DISSOLVED	10401L RESIDUE NONFILTR.	
	SUBM ID	MN MG/L	FE MG/L	CU MG/L	ZN MG/L	AS MG/L	CD MG/L	PB MG/L	MG/L	
SAMPLES(FLAGS)	0402	1(0)	19(2)	16(5)	13(2)	2(2)	13(12)	15(10)	6(1)	ECHANTILLONS(IND.)
LOW		.000	.005	L.000	L.001	L.07	L.001	L.001	L1.	MINIMUM
HIGH		.000	.50	L.064	.055	L.07	.001	L.207	50.	MAXIMUM
AVERAGE			.150*	.021*	.012*		.001*	.029*	28.*	MOYENNE
STD.DEV.			.126*	.026*	.017*		.000*	.072*	22.*	ECART-TYPE
PERCNT:10TH			L.05	.001	L.001		L.001	L.001		10 <sup>e</sup> PERCNT
25TH			.06	.003*	.002		L.001	L.001	1.	25 <sup>e</sup>
MEDIAN 50TH			.10	.006	.005	L.07	L.001	L.002	33.	50 <sup>e</sup> MEDIANE
75TH			.23	.045	.007		L.001	.002	48.	75 <sup>e</sup>
90TH			.34	L.064	.040		L.001	L.207		90 <sup>e</sup>
SECONDARY CODE			07L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB BASIN

STATION 00YT10AA0001 LAT. 60 D 3M 0 S LONG. 128 D 54M 0 S

UTM 09 506000E 6657000 N  
NOV 29 1968 TO/A AUG 19 1974LIARD RIVER AT W.S.C. GAUGE AT BRIDGE  
ON ALASKA HIGHWAY IN UPPER LIARD

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0001	18(0)	17(1)	17(0)	18(2)	18(0)	17(0)	17(0)	17(1)	MINIMUM
HIGH	0003	124.	63.	63.4	L5.	.2	7.5	50.3	-.9	MAXIMUM
AVERAGE	0056	393.	216.	222.	60.	67.0	8.4	217.	.6	MOYENNE
STD.DEV.		72.	115.*	112.6	14.*	9.9		103.5		ECART-TYPE
			39.*	40.3	15.*	17.1		40.9		
PERCNT:10TH		125.	66.	63.6	L5.	.5	7.8	56.7	-.5	10 <sup>e</sup> PERCNT
25TH		159.	86.	85.1	5.	1.3	7.9	77.9	.0	25 <sup>e</sup>
MEDIAN 50TH		218.	112.	107.	10.	2.0	8.0	102.	.1	50 <sup>e</sup> MEDIANE
75TH		245.	132.	131.	15.	8.0	8.1	118.	.4	75 <sup>e</sup>
90TH		317.	168.	169.	40.	35.0	8.3	160.	.6	90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0056	17(0)	17(0)	17(0)		17(0)	17(0)	17(1)	17(0)	MINIMUM
HIGH	0003	.5	.8	20.4		0.	61.	L.1	4.2	MAXIMUM
AVERAGE		1.9	4.6	58.7		2.	265.	1.2	31.1	MOYENNE
STD.DEV.		.7	1.6	32.81		0.	126.	.3*	10.0	ECART-TYPE
		.3	.9	9.94		1.	50.	.3*	5.8	
PERCNT:10TH		.5	.9	20.9		0.	69.	.1	5.9	10 <sup>e</sup> PERCNT
25TH		.6	1.1	25.4		0.	95.	.1	7.4	25 <sup>e</sup>
MEDIAN 50TH		.6	1.3	31.0		0.	124.	.2	9.0	50 <sup>e</sup> MEDIANE
75TH		.7	1.7	38.7		0.	144.	.4	10.3	75 <sup>e</sup>
90TH		.9	2.3	44.3		0.	195.	.7	11.3	90 <sup>e</sup>
SECONDARY CODE				01L				06L	06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09125L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001	2(2)	13(0)			4(2)	14(0)	6(1)	12(2)	MINIMUM
HIGH	0003	L.5	.009			L.005	3.4	L.5	.05	MAXIMUM
AVERAGE	0056	L.5	.230			.021	12.2	20.0	L.10	MOYENNE
STD.DEV.			.060			.011*	6.69	9.2*	.08*	ECART-TYPE
			.071			.008*	2.17	7.7*	.01*	
PERCNT:10TH			.010				4.2		.07	10 <sup>e</sup> PERCNT
25TH			.010			L.005	5.4	2.0	.07	25 <sup>e</sup>
MEDIAN 50TH		L.5	.020			.009*	6.70	8.4	.08	50 <sup>e</sup> MEDIANE
75TH			.080			.017	7.6	16.0	.09	75 <sup>e</sup>
90TH			.150				8.4		L.10	90 <sup>e</sup>
SECONDARY CODE		02L	05L			13L	05L		04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION 00YT10AA0001 LAT. 60 D 3M 0 S LONG. 128 D 54M 0 S

UTM 09 506000E 6657000 N  
JUN 10, 1969 TO/À JUN 24, 1973LIARD RIVER AT W.S.C. GAUGE AT BRIDGE  
ON ALASKA HIGHWAY IN UPPER LIARD

		03301P LITHIUM EXTRBLE.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24303P CHROMIUM EXTRBLE.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS)	0001					1(0)	7(5)	4(3)	1(1)	ECHANTILLONS(IND.)
LOW	0056					.002	L.010	L.01	L.001	MINIMUM
HIGH	0003					.002	.03	.03	L.001	MAXIMUM
AVERAGE							.014*	.015*		MOYENNE
STD.DEV.							.008*	.010*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH							L.010	L.010		25 <sup>e</sup>
MEDIAN 50TH							L.01	L.010		50 <sup>e</sup> MEDIANE
75TH							.02	.020*		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE							01L	04L 04P		CODE DE SECOURS

		26104L IRON DISSOLVED	26305P IRON EXTRBLE.	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0001	11(1)	1(0)	1(1)	6(1)	6(5)	6(2)	7(6)		ECHANTILLONS(IND.)
LOW	0003	L.001	.34	L.001	.002	.002	L.001	.002		MINIMUM
HIGH	0056	.080	.34	L.001	L.01	L.01	L.01	L.01		MAXIMUM
AVERAGE		.025*			.003*	.009*	.004*	.009*		MOYENNE
STD.DEV.		.021*			.003*	.003*	.003*	.003*		ECART-TYPE
PERCNT:10TH		.010								10 <sup>e</sup> PERCNT
25TH		.010			.002	L.01	.002	L.01		25 <sup>e</sup>
MEDIAN 50TH		.020			.002	L.010	.004	L.01		50 <sup>e</sup> MEDIANE
75TH		.030			.002	L.01	.004	L.01		75 <sup>e</sup>
90TH		.040								90 <sup>e</sup>
SECONDARY CODE		02L	04P		06L	06L	04L	04L		CODE DE SECOURS

		38301P STRONTIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001		1(0)	1(1)	1(1)	5(5)	7(7)	7(0)	6(0)	ECHANTILLONS(IND.)
LOW	0056		.0002	L.001	L.001	L.001	L.001	13.	8.	MINIMUM
HIGH	0003		.0002	L.001	L.001	L.05	L.01	238.	215.	MAXIMUM
AVERAGE								64.	60.	MOYENNE
STD.DEV.								78.	77.	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH						L.001	L.01	20.	16.	25 <sup>e</sup>
MEDIAN 50TH						L.001	L.01	39.	37.	50 <sup>e</sup> MEDIANE
75TH						L.001	L.01	54.	49.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01L		01L	01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION 00YT10AB0001 LAT 60 D 27 M 15 S LONG. 129 D 8 M 9 S

UTM 09 492500E 6701800 N  
JUN 10, 1969 TO/A JUL 30 1974FRANCES RIVER AT W.S.C. GAUGE AT  
BRIDGE ON ROBERT CAMPBELL HIGHWAY

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	US/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0001	18(0)	17(1)	18(0)	18(1)	18(0)	18(0)	18(0)	17(1)	ECHANTILLONS(IND.)
LOW	0003	115.	60.	55.2	L5.	.6	7.4	46.0	-1.1	MINIMUM
HIGH		213.	107.	104.	30.	6.2	8.1	90.5	.1	MAXIMUM
AVERAGE		149.	77.*	74.4	13.*	2.2		62.8		MOYENNE
STD.DEV.		33.	16.*	16.7	8.*	1.5		16.1		ECART-TYPE
PERCNT:10TH		116.	61.	57.1	5.	.6	7.6	47.1	-8	10 <sup>e</sup> PERCNT
25TH		125.	64.	61.2	5.	1.0	7.7	50.2	-6	25 <sup>e</sup>
MEDIAN 50TH		137.	72.	68.5	13.	1.7	7.9	56.4	-4	50 <sup>e</sup> MEDIANE
75TH		187.	78.	97.5	15.	2.8	8.0	85.2	-3	75 <sup>e</sup>
90TH		204.	103.	98.7	30.	5.0	8.1	87.4	Q -1	90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBON. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0003	17(0)	18(0)	17(0)		18(0)	18(0)	17(1)	17(0)	ECHANTILLONS(IND.)
LOW	0001	.3	.8	17.3		0.	56.	L.1	10.0	MINIMUM
HIGH		.7	1.7	30.1		0.	110.	.6	13.7	MAXIMUM
AVERAGE		.5	1.2	22.07		0.	77.	.3*	11.5	MOYENNE
STD.DEV.		.1	.3	4.40		0.	20.	2*	1.2	ECART-TYPE
PERCNT:10TH		.4	.8	17.3		0.	57.	1	10.0	10 <sup>e</sup> PERCNT
25TH		.5	1.0	18.6		0.	61.	2	10.5	25 <sup>e</sup>
MEDIAN 50TH		.5	1.0	21.2		0.	69.	.2	11.2	50 <sup>e</sup> MEDIANE
75TH		.6	1.5	22.7		0.	104.	4	12.1	75 <sup>e</sup>
90TH		.7	1.7	29.8		0.	107.	5	13.6	90 <sup>e</sup>
SECONDARY CODE				01L					06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	F MG/L	
SAMPLES(FLAGS)	0001	1(1)	11(0)			1(0)	14(0)	4(0)	11(1)	ECHANTILLONS(IND.)
LOW	0003	L.5	.011			.022	3.7	3.0	.05	MINIMUM
HIGH		L.5	.520			.022	7.0	9.0	.10	MAXIMUM
AVERAGE			.081				5.24	5.8	.07*	MOYENNE
STD.DEV.			.148				.96	2.5	02*	ECART-TYPE
PERCNT:10TH			.016				3.8		06	10 <sup>e</sup> PERCNT
25TH			.020				4.6	4.0	06	25 <sup>e</sup>
MEDIAN 50TH			.030				5.20	5.5	.07	50 <sup>e</sup> MEDIANE
75TH			.070				6.2	7.5	.07	75 <sup>e</sup>
90TH			.090				6.3		L 10	90 <sup>e</sup>
SECONDARY CODE		02L	05L				05L			

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## LIARD RIVER SUB-BASIN

STATION **00YT10AB0001** LAT. **60 D 27 M 15 S** LONG. **129 D 8 M 9 S**UTM **09 492500 E 6701800 N**

JUN 10, 1969 TO/À JUN 24, 1973

FRANCES RIVER AT W.S.C. GAUGE AT  
BRIDGE ON ROBERT CAMPBELL HIGHWAY

	03301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
	LI	B	AL	V	CR	MN	MN	CO	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0003					1(1)	4(4)	5(4)	1(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0001					L.001	L.010	L.01	L.001	<b>MINIMUM</b>
<b>HIGH</b>					L.001	L.01	.01	L.001	<b>MAXIMUM</b>
<b>AVERAGE</b>							.010*		<b>MOYENNE</b>
<b>STD.DEV.</b>							.000*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						L.010	L.01		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>						L.010	L.01		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						L.010	L.01		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE						01L	04P 04L		CODE DE SECOURS

	26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
	FE	FE	NI	CU	CU	ZN	ZN	AS	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0001	9(1)	1(0)	1(0)	4(1)	6(6)	4(0)	6(5)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0003	L.001	.12	.001	L.001	L.001	.002	.005		<b>MINIMUM</b>
<b>HIGH</b>	.040	.12	.001	.003	L.01	.004	L.01		<b>MAXIMUM</b>
<b>AVERAGE</b>	.022*			.002*		.003	.009*		<b>MOYENNE</b>
<b>STD.DEV.</b>	.012*			.001*		.001	.002*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.020			.001*	L.01	.002	L.01		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.020			.002	L.010	.003	L.010		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.030			.003	L.01	.004	L.01		<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE	02L	04P			06L		04L		CODE DE SECOURS

	38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FILT. NONFILTR.	
	SR	MO	CD	CD	PB	PB	MG/L	MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0003		1(0)		1(1)	4(3)	6(6)	3(0)	3(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0001		.0006		L.001	L.001	L.001	10.	7.	<b>MINIMUM</b>
<b>HIGH</b>		.0006		L.001	.009	L.01	19.	13.	<b>MAXIMUM</b>
<b>AVERAGE</b>					.003*		15.	9.	<b>MOYENNE</b>
<b>STD.DEV.</b>					.004*		5.	3.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>					L.001	L.01			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>					L.001	L.010	15.	8.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>					.005*	L.01			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE						01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives









# WATER QUALITY STATIONS : ALPHABETICAL INDEX

## HAY RIVER

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
HAY RIVER AT INDIAN CABINS, ALBERTA	00AL070B0003	59	51	57	117	1	51	842
HAY RIVER NEAR HAY RIVER NORTHWEST TERRITORIES	00NW070B0001 97900S001	60	44	45	115	51	20	844
HAY RIVER NEAR MEANDER RIVER, ALBERTA	00AL070B0002 97900S003	59	8		117	38		840
STEEN RIVER NEAR STEEN RIVER, ALBERTA	00AL070B0001 97900S004	59	34	33	117	11	30	838

## MACKENZIE RIVER BASIN 1960-79

## HAY RIVER SUB BASIN

LAT 59 D 34 M 33 S LONG 117 D 11 M 30 S

UTM 11 489200 6604000 N  
AUG 11 1969 TO/A JAN 12 1974

STEEN RIVER NEAR STEEN RIVER ALBERTA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL CACO3	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301S PH PH UNITS	10101L ALKALINITY TOTAL CACO3	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE-CM	MG/L	MG/L				MG/L		
SAMPLES(FLAGS) 0103	4(0)	3(0)	3(0)	4(0)	4(0)	4(0)	4(0)	3(0)	ECHANTILLONS(IND.)
LOW	485.	328.	235.	180.	3.1	6.9	119.	.0	MINIMUM
HIGH	830.	543.	381.	200.	23.0	8.1	210.	.9	MAXIMUM
AVERAGE	591.	404.	287.7	189.	12.0		142.8		MOYENNE
STD.DEV.	162.	120.	81.1	9.	8.2		44.8		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	491.			183.	7.0	7.3	120.0		25 <sup>e</sup>
MEDIAN 50TH	524.	341.	247.	188.	11.0	7.7	121.0	.7	50 <sup>e</sup> MEDIANE
75TH	690.			195.	17.0	7.9	165.5		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS) 0103	4(0)	3(0)	4(0)	3(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW	1.0	29.0	59.6	10.9	0.	145.	14.0	120.	MINIMUM
HIGH	2.5	46.0	103.	30.1	0.	256.	23.0	212.	MAXIMUM
AVERAGE	1.5	35.7	77.6	19.1	0.	183.	19.0	155.0	MOYENNE
STD.DEV.	.7	9.1	19.1	9.9	0.	63.	4.6	49.8	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.1		63.3						25 <sup>e</sup>
MEDIAN 50TH	1.2	32.0	74.0	16.4	0.	147.	20.0	133.	50 <sup>e</sup> MEDIANE
75TH	1.9		92.0						75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255F PHOSPHORUS DISSOLVED ORTHO PO4	15363F PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	F MG/L	
SAMPLES(FLAGS) 0103	4(0)	4(1)			3(0)	3(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW	1.1	.005			.026	5.4	36.0	.08	MINIMUM
HIGH	1.7	.240			.060	8.0	80.0	.13	MAXIMUM
AVERAGE	1.4	.071*			.041	7.0	49.3	.11	MOYENNE
STD.DEV.	.3	.113*			.017	1.4	20.6	.02	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.2	.007*					38.0	.10	25 <sup>e</sup>
MEDIAN 50TH	1.5	.020			.037	7.6	40.5	.12	50 <sup>e</sup> MEDIANE
75TH	1.7	.135					60.5	.13	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		05L							CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## HAY RIVER SUB-BASIN

STATION **00AL07OB0001** LAT. **59 D 34 M 33 S** LONG. **117 D 11 M 30 S**UTM **11 489200 E 6604000 N**  
AUG 05, 1971 TO/À JAN 12, 1974

STEEN RIVER NEAR STEEN RIVER, ALBERTA

		03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	CO MG/L	
<b>SAMPLES(FLAGS)</b>	0103	5(0)	4(0)	8(4)	4(4)	8(8)	8(0)	7(0)	8(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		.016	.16	L.10	L.05	L.010	.02	.69	L.001	<b>MINIMUM</b>
<b>HIGH</b>		.029	.28	1.4	L.05	L.010	.06	3.00	.019	<b>MAXIMUM</b>
<b>AVERAGE</b>		.023	.22	.38*			.04	1.54	.006*	<b>MOYENNE</b>
<b>STD.DEV.</b>		.006	.05	.49*			.02	.77	.007*	<b>ECART-TYPE</b>

## PERCNT:10TH

<b>25TH</b>	.019	.18	L.10	L.05	L.010	.03	1.10	.001*	<b>10<sup>e</sup> PERCNT</b>
<b>MEDIAN 50TH</b>	.026	.22	.13*	L.05	L.010	.05	1.30	.003	<b>25<sup>e</sup></b>
<b>75TH</b>	.027	.26	.54	L.05	L.010	.06	2.00	L.010	<b>50<sup>e</sup> MEDIANE</b>
<b>90TH</b>									<b>75<sup>e</sup></b>
									<b>90<sup>e</sup></b>

SECONDARY CODE

01P CODE DE SECOURS

		28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	
<b>SAMPLES(FLAGS)</b>	0103	8(2)	8(0)	8(1)	4(0)	8(0)	7(7)	8(8)	8(6)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		.004	.001	L.001	.007	.16	L.05	L.01	L.001	<b>MINIMUM</b>
<b>HIGH</b>		.014	.005	.014	.030	.23	L.05	L.01	L.01	<b>MAXIMUM</b>
<b>AVERAGE</b>		.008*	.003	.007*	.0183	.19			.003*	<b>MOYENNE</b>
<b>STD.DEV.</b>		.003*	.002	.005*	.0095	.03			.004*	<b>ECART-TYPE</b>

## PERCNT:10TH

<b>25TH</b>	.005	.002	.003	.0115	.17	L.05	L.01	L.001	<b>10<sup>e</sup> PERCNT</b>
<b>MEDIAN 50TH</b>	.008	.003	.007	.0180	.20	L.05	L.01	.001*	<b>25<sup>e</sup></b>
<b>75TH</b>	L.010	.005	.011	.0250	.21	L.05	L.01	.006*	<b>50<sup>e</sup> MEDIANE</b>
<b>90TH</b>									<b>75<sup>e</sup></b>
									<b>90<sup>e</sup></b>

SECONDARY CODE

01P

01P CODE DE SECOURS

		51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82103L LEAD DISSOLVED	82301P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0103	4(4)	8(6)	4(4)	3(3)		8(8)			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		L.20	L.1	L.05	L.2		L.001			<b>MINIMUM</b>
<b>HIGH</b>		L.50	.1	L.05	L.2		L.001			<b>MAXIMUM</b>
<b>AVERAGE</b>			.1*							<b>MOYENNE</b>
<b>STD.DEV.</b>			.0*							<b>ECART-TYPE</b>

## PERCNT:10TH

<b>25TH</b>	L.300	L.1	L.05				L.001		<b>10<sup>e</sup> PERCNT</b>
<b>MEDIAN 50TH</b>	L.400	L.1	L.05	L.2			L.001		<b>25<sup>e</sup></b>
<b>75TH</b>	L.450	.1*	L.05				L.001		<b>50<sup>e</sup> MEDIANE</b>
<b>90TH</b>									<b>75<sup>e</sup></b>
									<b>90<sup>e</sup></b>

SECONDARY CODE

02P

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## HAY RIVER SUB BASIN

STATION 00AL070B0002 LAT 59 D 8 M LONG 117 D 38 M

UTM 11 464000 6554000  
AUG 11, 1969 TO/A JAN 12 1974

HAY RIVER NEAR MEANDER RIVER ALBERTA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	103015 PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE CM								
SAMPLES(FLAGS) 0103	4(0)	3(0)	3(0)	4(0)	4(0)	5(0)	4(0)	3(0)	ECHANTILLONS(IND.)
LOW	312.	220.	172.	100.	14.0	7.1	92.7	-.1	MINIMUM
HIGH	479.	297.	240.	180.	39.0	9.1	160.	.3	MAXIMUM
AVERAGE	386.	249.	199.7	140.	21.8		122.7		MOYENNE
STD.DEV.	70.	42.	35.7	37.	11.6		28.6		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	337.			110.	15.0	7.8	101.8		25 <sup>e</sup>
MEDIAN 50TH	377.	229.	187.	140.	17.0	8.0	119.0	.1	50 <sup>e</sup> MEDIANE
75TH	435.			170.	28.5	8.9	143.5		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16304L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0103	4(0)	3(0)	4(0)	3(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW	2.0	14.0	39.6	10.2	0.	135.	2.9	67.0	MINIMUM
HIGH	5.1	18.0	68.0	17.0	0.	195.	3.8	92.0	MAXIMUM
AVERAGE	2.8	15.3	53.4	13.3	0.	162.	3.3	77.0	MOYENNE
STD.DEV.	1.5	2.3	11.6	3.5	0.	30.	.5	13.2	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	2.0		45.8						25 <sup>e</sup>
MEDIAN 50TH	2.2	14.0	53.0	12.7	0.	155.	3.1	72.0	50 <sup>e</sup> MEDIANE
75TH	3.7		61.0						75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15255F PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363F PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SUBM ID									
SAMPLES(FLAGS) 0103	4(0)	4(0)			3(0)	3(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW	1.0	.140			.054	5.2	16.0	.07	MINIMUM
HIGH	1.7	.240			.099	7.0	42.0	.12	MAXIMUM
AVERAGE	1.4	.174			.070	6.2	28.3	.09	MOYENNE
STD.DEV.	.3	.047			.025	.9	10.7	.02	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.3	.140					21.0	.08	25 <sup>e</sup>
MEDIAN 50TH	1.5	.157			.058	6.5	27.5	.08	50 <sup>e</sup> MEDIANE
75TH	1.6	.207					35.5	.10	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		05L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## HAY RIVER SUB-BASIN

STATION **00AL070B0002** LAT. **59 D 8M** LONG. **117 D 38M**UTM **11 464000E 6554000N**  
AUG 06, 1971 TO/À JAN 12, 1974

HAY RIVER NEAR MEANDER RIVER, ALBERTA

	SUBM ID	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	13302P ALUMINUM EXTRBLE. AL MG/L	23301P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>5(0)</b>	<b>5(0)</b>	<b>9(3)</b>	<b>5(5)</b>	<b>9(9)</b>	<b>9(0)</b>	<b>8(0)</b>	<b>9(5)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.009</b>	<b>.13</b>	<b>L.10</b>	<b>L.05</b>	<b>L.010</b>	<b>.04</b>	<b>.78</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.014</b>	<b>.22</b>	<b>1.4</b>	<b>L.05</b>	<b>L.010</b>	<b>.34</b>	<b>3.80</b>	<b>.014</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.011</b>	<b>.17</b>	<b>.49*</b>			<b>.10</b>	<b>2.05</b>	<b>.005*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.002</b>	<b>.03</b>	<b>.47*</b>			<b>.09</b>	<b>1.09</b>	<b>.005*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.009</b>	<b>.15</b>	<b>L.10</b>	<b>L.05</b>	<b>L.010</b>	<b>.06</b>	<b>1.00</b>	<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.010</b>	<b>.17</b>	<b>.33</b>	<b>L.05</b>	<b>L.010</b>	<b>.06</b>	<b>2.05</b>	<b>.002</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.012</b>	<b>.17</b>	<b>.83</b>	<b>L.05</b>	<b>L.010</b>	<b>.09</b>	<b>2.85</b>	<b>L.01</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>									<b>01P</b>	<b>CODE DE SECOURS</b>

	SUBM ID	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	48302P CADMIUM EXTRBLE. CD MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>9(3)</b>	<b>9(2)</b>	<b>9(1)</b>	<b>5(1)</b>	<b>9(0)</b>	<b>8(8)</b>	<b>9(8)</b>	<b>9(6)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.005</b>	<b>.05</b>	<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.014</b>	<b>.008</b>	<b>.03</b>	<b>.030</b>	<b>.16</b>	<b>L.05</b>	<b>.05</b>	<b>L.01</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.008*</b>	<b>.003*</b>	<b>.006*</b>	<b>.0176*</b>	<b>.13</b>		<b>.01*</b>	<b>.003*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.004*</b>	<b>.002*</b>	<b>.009*</b>	<b>.0117*</b>	<b>.03</b>		<b>.01*</b>	<b>.004*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.006</b>	<b>.002</b>	<b>.001</b>	<b>.010</b>	<b>.13</b>	<b>L.05</b>	<b>L.01</b>	<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.009</b>	<b>.003</b>	<b>.003</b>	<b>.013</b>	<b>.13</b>	<b>L.05</b>	<b>L.01</b>	<b>.001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.01</b>	<b>.004</b>	<b>.004</b>	<b>.030</b>	<b>.15</b>	<b>L.05</b>	<b>L.01</b>	<b>.003</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>01P</b>		<b>04P</b>					<b>01P</b>	<b>CODE DE SECOURS</b>

	SUBM ID	51301P ANTIMONY EXTRBLE. SB MG/L	56301P BARIUM EXTRBLE. BA MG/L	80311P MERCURY EXTRBLE. HG UG/L	81301P THALLIUM EXTRBLE. TL MG/L	82103L LEAD DISSOLVED PB MG/L	82301P LEAD EXTRBLE. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0103</b>	<b>5(5)</b>	<b>9(6)</b>	<b>5(5)</b>	<b>4(4)</b>		<b>9(8)</b>			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.008</b>	<b>L.1</b>	<b>L.05</b>	<b>L.2</b>		<b>L.001</b>			<b>MINIMUM</b>
<b>HIGH</b>		<b>L.50</b>	<b>.1</b>	<b>L.05</b>	<b>L.2</b>		<b>.004</b>			<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.1*</b>				<b>.001*</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.0*</b>				<b>.001*</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.20</b>	<b>L.1</b>	<b>L.05</b>	<b>L.2</b>		<b>L.001</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.40</b>	<b>L.1</b>	<b>L.05</b>	<b>L.2</b>		<b>L.001</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.40</b>	<b>.1</b>	<b>L.05</b>	<b>L.2</b>		<b>L.001</b>			<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>02P</b>				<b>02P</b>				<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## HAY RIVER SUB-BASIN

STATION 00AL070B0003 LAT. 59 D 51 M 57 S LONG. 117 D 1 M 51 S

UTM 11 498300E 6636300N  
JUN 18 1972 TO/A JAN 12 1974

HAY RIVER AT INDIAN CABINS ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301S PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	3(0)	5(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		310.	183.	153.	120.	16.0	7.9	98.0	-.2	MINIMUM
HIGH		510.	318.	246.	180.	30.0	8.9	183.	.2	MAXIMUM
AVERAGE		398.	243.	194.0	147.	22.3		133.0		MOYENNE
STD.DEV.		102.	69.	47.5	31.	7.1		44.4		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH							7.9			25 <sup>e</sup>
MEDIAN 50TH		375.	229.	183.	140.	21.0	8.1	118.	.1	50 <sup>e</sup> MEDIANE
75TH							8.5			75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONAT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0103	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		1.3	11.0	47.0	8.7	0.	119.	2.8	53.0	MINIMUM
HIGH		1.9	20.0	76.0	13.7	0.	223.	6.1	91.0	MAXIMUM
AVERAGE		1.6	15.0	58.0	11.9	0.	162.	4.2	72.7	MOYENNE
STD.DEV.		.3	4.6	15.7	2.8	0.	54.	1.7	19.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.5	14.0	51.0	13.5	0.	144.	3.8	74.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KUJLDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255F PHOSPHORUS DISSOLVED ORTHO PO4	15363F PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	F MG/L	
SAMPLES(FLAGS)	0103	3(0)	3(0)			3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW		1.3	.060			.047	5.1	15.0	.05	MINIMUM
HIGH		1.5	.250			.140	7.2	40.0	.11	MAXIMUM
AVERAGE		1.4	.137			.083	6.1	29.7	.08	MOYENNE
STD.DEV.		.1	.100			.050	1.1	13.1	.03	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		1.4	.100			.062	6.0	34.0	.07	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## HAY RIVER SUB-BASIN

STATION **00AL07OB0003** LAT. **59 D 51 M 57 S** LONG. **117 D 1 M 51 S**UTM **11 498300E 6636300 N**  
AUG 05, 1971 TO/À JAN 12, 1974

HAY RIVER AT INDIAN CABINS, ALBERTA

	03301P LITHIUM EXTRBL.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBL.	23301P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25304P MANGANESE EXTRBL.	26304P IRON EXTRBL.	27302P COBALT EXTRBL.	
SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	CO MG/L	
<b>SAMPLES(FLAGS)</b> 0103	5(0)	4(0)	8(2)	4(4)	8(8)	8(0)	7(0)	8(4)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.010	.12	L.10	L.05	L.010	.02	.44	L.001	<b>MINIMUM</b>
<b>HIGH</b>	.014	.34	.82	L.05	L.010	.10	3.40	.016	<b>MAXIMUM</b>
<b>AVERAGE</b>	.012	.20	.35*			.06	1.92	.006*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.002	.10	.26*			.03	.94	.006*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.011	.14	.14*	L.05	L.010	.04	1.10	.001*	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.011	.17	.29	L.05	L.010	.06	2.10	.003	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.012	.26	.53	L.05	L.010	.07	2.30	L.010	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>

SECONDARY CODE

01P CODE DE SECOURS

	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48302P CADMIUM EXTRBL.	
SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	
<b>SAMPLES(FLAGS)</b> 0103	8(2)	7(0)	8(1)	4(1)	8(0)	7(7)	8(8)	8(6)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	.004	.001	L.001	L.005	.10	L.05	L.01	L.001	<b>MINIMUM</b>
<b>HIGH</b>	.013	.005	.016	.030	.17	L.05	L.01	L.01	<b>MAXIMUM</b>
<b>AVERAGE</b>	.009*	.003	.006*	.0190*	.13			.003*	<b>MOYENNE</b>
<b>STD.DEV.</b>	.003*	.001	.005*	.0129*	.03			.004*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.007	.002	.003	.0080*	.10	L.05	L.01	L.001	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	.009*	.003	.005	.0205	.14	L.05	L.01	.001*	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.010*	.005	.008	.0300	.16	L.05	L.01	.006*	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>

SECONDARY CODE

01P

04P

01P CODE DE SECOURS

	51301P ANTIMONY EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	81301P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82301P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
SUBM ID	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0103	4(4)	8(6)	4(4)	3(3)		8(7)			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	L.20	L.1	L.05	L.2		L.001			<b>MINIMUM</b>
<b>HIGH</b>	L.50	.1	L.05	L.2		.004			<b>MAXIMUM</b>
<b>AVERAGE</b>		.1*				.001*			<b>MOYENNE</b>
<b>STD.DEV.</b>		.0*				.001*			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	L.300	L.1	L.05			L.001			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	L.400	L.1	L.05	L.2		L.001			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	L.450	.1*	L.05			L.001			<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>

SECONDARY CODE

02P

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## HAY RIVER SUB-BASIN

STATION 00NW070B0001 LAT 60 D 44 M 45 S LONG 115 D 51 M 20 S

UTM 11 562400E 6734800N

JAN 09. 1968 TO/A OCT 12. 1979

HAY RIVER NEAR HAY RIVER  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	02020L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301S PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0124	25(0)	30(0)	33(0)	35(0)	37(0)	8(0)	33(0)	28(0)	ECHANTILLONS(IND.)
LOW	0001	217.	78.	85.	30.	2.1	7.6	2.	-5.	MINIMUM
HIGH	0058	821.	527.	400.	600.	225.	8.4	273.	1.6	MAXIMUM
AVERAGE		456.	255.	212.2	168.	44.8		137.6		MOYENNE
STD.DEV.		214.	142.	102.1	132.	63.4		76.5		ECART-TYPE
PERCNT:10TH		233.	134.	103.	65.	5.5		59.1	-4.	10 <sup>e</sup> PERCNT
25TH		290.	161.	134.	90.	6.5	7.7	73.0	-2.	25 <sup>e</sup>
MEDIAN 50TH		367.	187.	169.	130.	10.0	7.8	119.	.0	50 <sup>e</sup> MEDIANE
75TH		688.	400.	297.	200.	43.	8.2	211.	1.2	75 <sup>e</sup>
90TH		779.	508.	368.	400.	170.		246.	1.6	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16304L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0001	36(0)	36(0)	33(0)	27(0)	30(0)	30(0)	36(0)	37(0)	ECHANTILLONS(IND.)
LOW	0124	1.2	5.4	29.1	2.4	0.	2.	1.4	33.	MINIMUM
HIGH	0056	8.6	35.8	131.	29.3	13.	333.	15.3	178.	MAXIMUM
AVERAGE		2.7	16.2	65.4	12.3	1.	149.	5.5	84.3	MOYENNE
STD.DEV.		1.2	9.4	31.7	7.4	3.	90.	4.1	42.9	ECART-TYPE
PERCNT:10TH		1.7	7.3	33.3	4.3	0.	71.	2.0	43.2	10 <sup>e</sup> PERCNT
25TH		1.9	9.2	39.2	6.7	0.	85.	2.5	52.	25 <sup>e</sup>
MEDIAN 50TH		2.5	12.0	51.4	9.9	0.	114.	3.5	67.8	50 <sup>e</sup> MEDIANE
75TH		3.2	23.0	98.6	17.7	0.	256.	8.6	112.	75 <sup>e</sup>
90TH		3.5	32.7	108.	22.8	5.	295.	12.7	160.	90 <sup>e</sup>
SECONDARY CODE				01F				06L	06L 03L 01L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15255F PHOSPHORUS DISSOLVED ORTHO PO4	15363F PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	F MG/L	
SAMPLES(FLAGS)	0124	16(0)	33(2)	29(3)	24(1)	10(0)	32(0)	25(0)	35(1)	ECHANTILLONS(IND.)
LOW	0001	.7	L.005	L.002	L.001	.013	2.9	20.0	.07	MINIMUM
HIGH	0056	2.2	.588	.082	.045	.13	8.4	39.	.31	MAXIMUM
AVERAGE		1.2	.217*	.016*	.015*	.053	5.4	31.8	.13*	MOYENNE
STD.DEV.		.3	.196*	.017*	.010*	.037	1.6	5.7	.06*	ECART-TYPE
PERCNT:10TH		.8	.020	L.002	.005	.019	3.6	24.0	.09	10 <sup>e</sup> PERCNT
25TH		1.0	.040	.007	.009	.029	4.0	28.0	.09	25 <sup>e</sup>
MEDIAN 50TH		1.2	.170	.011	.014	.038	5.0	32.0	.12	50 <sup>e</sup> MEDIANE
75TH		1.4	.380	.016	.021	.075	6.7	35.0	.15	75 <sup>e</sup>
90TH		1.4	.520	.040	.025	.114	7.6	39.0	.23	90 <sup>e</sup>
SECONDARY CODE		02L	06F 05L 08L	55L 57L 56L	63L 56L				04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## HAY RIVER SUB-BASIN

STATION **00NW07OB0001** LAT. **60 D 44 M 45 S** LONG. **115 D 51 M 20 S**UTM **11 562400 E 6734800 N**

JUN 30, 1969 TO/À OCT 12, 1979

HAY RIVER NEAR HAY RIVER  
NORTHWEST TERRITORIES

		03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	13302P ALUMINUM EXTRBLE.	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	FE MG/L	CO MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0001</b>	<b>18(0)</b>	<b>22(0)</b>		<b>18(18)</b>	<b>18(18)</b>	<b>23(2)</b>	<b>22(0)</b>	<b>21(9)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	0124	.009	.03		L.05	L.010	L.01	.70	L.001	MINIMUM
HIGH		.028	.23		L.05	L.015	.37	11.6	.008	MAXIMUM
AVERAGE		.015	.17				.08*	3.13	.003*	MOYENNE
STD.DEV.		.006	.04				.09*	3.27	.002*	ECART-TYPE
PERCNT:10TH		.009	.12		L.05	L.010	.01	.80	L.001	10 <sup>e</sup> PERCNT
25TH		.011	.15		L.05	L.010	.02	1.40	.001	25 <sup>e</sup>
MEDIAN 50TH		.013	.17		L.05	L.010	.05	1.85	.002	50 <sup>e</sup> MEDIANE
75TH		.020	.19		L.05	L.010	.09	2.50	.003	75 <sup>e</sup>
90TH		.024	.22		L.05	L.015	.18	9.70	.006	90 <sup>e</sup>
SECONDARY CODE		01L					04L			CODE DE SECOURS

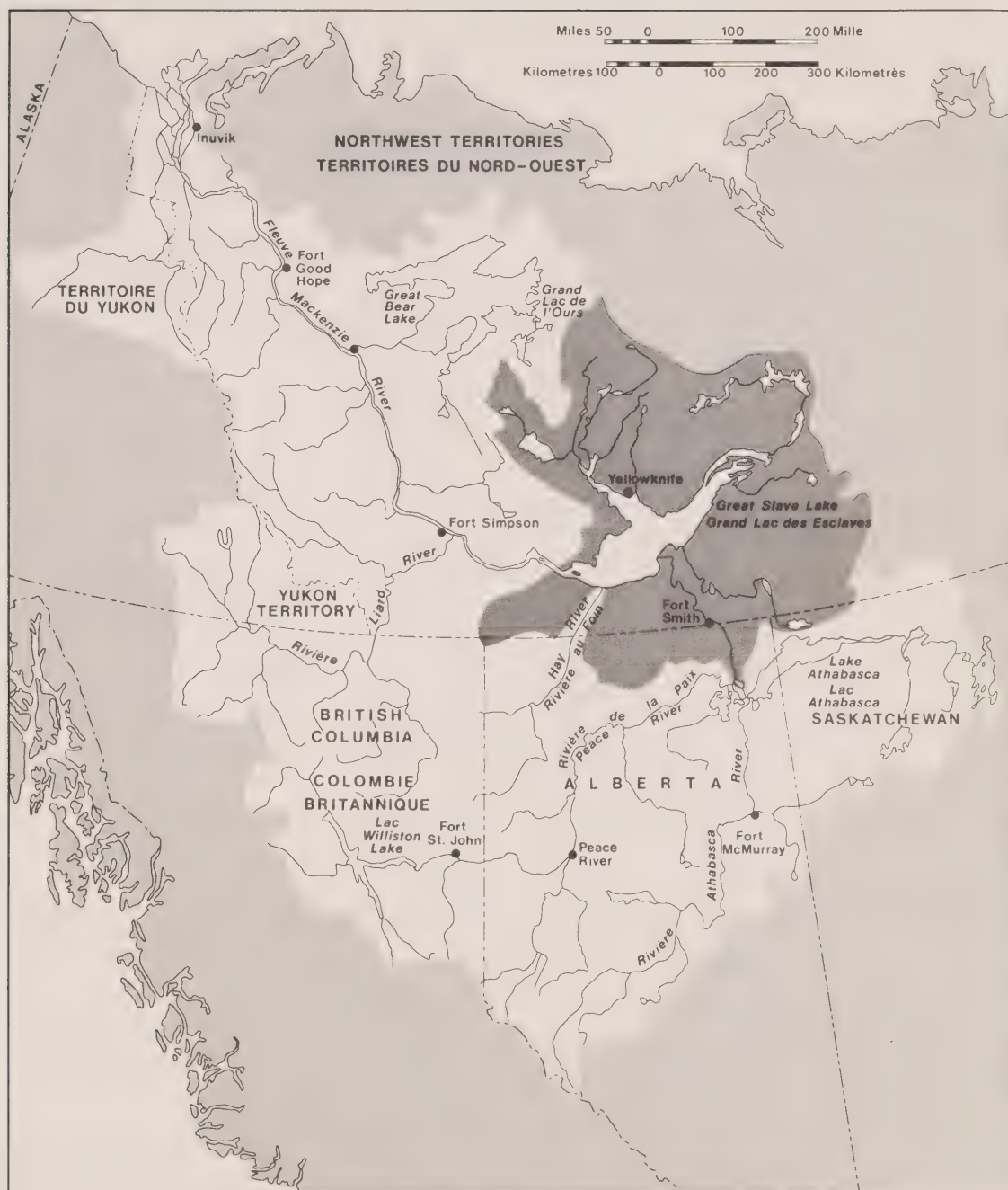
		28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	
	SUBM ID	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0124</b>	<b>19(0)</b>	<b>24(4)</b>	<b>23(6)</b>	<b>16(8)</b>	<b>19(0)</b>	<b>18(18)</b>		<b>22(18)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	0056	.004	L.001	L.001	L.0005	.04	L.05		L.001	MINIMUM
HIGH	0001	.027	.023	.05	.013	.34	L.10		.002	MAXIMUM
AVERAGE		.010	.005*	.011*	.0044*	.17			.001*	MOYENNE
STD.DEV.		.006	.006*	.014*	.0037*	.08			.000*	ECART-TYPE
PERCNT:10TH		.004	.001	L.001	.0006	.07	L.05		L.001	10 <sup>e</sup> PERCNT
25TH		.006	.002	.002	.0008	.11	L.05		L.001	25 <sup>e</sup>
MEDIAN 50TH		.009	.003	.005	L.0050	.14	L.05		L.001	50 <sup>e</sup> MEDIANE
75TH		.011	.007	.010	L.0050	.22	L.05		L.001	75 <sup>e</sup>
90TH		.020	.015	.039	.009	.31	L.10		.001	90 <sup>e</sup>
SECONDARY CODE			06L	04P 04L	04L	01L	01L			CODE DE SECOURS

		51301P ANTIMONY EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	81301P THALLIUM EXTRBLE.	82103L LEAD DISSOLVED	82301P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED	
	SUBM ID	SB MG/L	BA MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0001</b>		<b>3(2)</b>	<b>6(2)</b>		<b>8(7)</b>	<b>22(15)</b>	<b>22(0)</b>	<b>17(5)</b>	<b>ECHANTILLONS(IND.)</b>
LOW	0124		L.0	L.03		L.001	L.001	2.	L.1.	MINIMUM
HIGH	0056		.1	.11		L.05	.008	1270.	1170.	MAXIMUM
AVERAGE			.0*	.07*		.014*	.003*	172.	194.*	MOYENNE
STD.DEV.			.0*	.03*		.022*	.002*	340.	351.*	ECART-TYPE
PERCNT:10TH							L.001	3.	L.1.	10 <sup>e</sup> PERCNT
25TH				L.05		L.001	L.001	5.	L.1.	25 <sup>e</sup>
MEDIAN 50TH			L.0	.07		L.001	.003*	16.	9.	50 <sup>e</sup> MEDIANE
75TH				.11		.027*	.004	72.	96.	75 <sup>e</sup>
90TH							.007	641.	810.	90 <sup>e</sup>
SECONDARY CODE						01L	02P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives









# WATER QUALITY STATIONS : ALPHABETICAL INDEX

# GREAT SLAVE LAKE

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
BAKER CREEK AT BRIDGE AT GIANT YELLOWKNIFE MINES STATION 8, NORTHWEST TERRITORIES	00NW07SB0004	62	27	0	114	28	30	873
BAKER CREEK NEAR DISCHARGE INTO YELLOWKNIFE BAY AT CULVERT NEAR GIANT REC HALL, GIANT YELLOWKNIFE MINES STATION 4, NORTHWEST TERRITORIES	00NW07SB0003	62	29	11	114	21	40	871
BAKER CREEK, APPROX. 4000 FT. ABOVE MILL, AT WATER SURVEY STATION, GIANT YELLOWKNIFE MINE NORTHWEST TERRITORIES	00NW07SB0008	62	30	36	114	21	48	880
BENCH MARK CREEK NEAR FORT SMITH, ALBERTA	00AL07NB0003 97900S006	59	48	50	111	57	45	853
BUFFALO RIVER AT HWY 5, NORTHWEST TERRITORIES	00NW07PA0002 97900S001	60	42	45	114	55	0	857
FRAME LAKE ABOUT 0.05 KILOMETRES SOUTH OF THE NORTH SHORE, NORTHWEST TERRITORIES	01NW07SB0007	62	27	35	114	23	20	892
GRACE LAKE ABOUT 1.2 KILOMETRES SOUTHWEST OF OUTLET TO KAM LAKE, NORTHWEST TERRITORIES	01NW07SB0006	62	25	0	114	26	30	890
GRACE LAKE, INFLOW STREAM FLOWING INTO WEST END OF LAKE 15 METRES FROM MOUTH NORTHWEST TERRITORIES	00NW07SB0005	62	25	0	114	28	30	875
GREAT SLAVE LAKE AT YELLOWKNIFE, NORTHWEST TERRITORIES	01NW07SB0001 97900S001	62	26	30	114	21	0	884
KAKISA RIVER AT OUTLET OF KAKISA LAKE, NORTHWEST TERRITORIES	00NW07UC0001 97900S001	60	56	30	117	25	0	882
KAM LAKE ABOUT 1.2 KILOMETRES SOUTH OF SEWER INFLOW AND 0.35 KILOMETRE NORTHWEST OF PUD LAKE INFLOW, NORTHWEST TERRITORIES	01NW07SB0005	62	25	30	114	24	0	888
KAM LAKE INFLOW STREAM FROM GRACE LAKE ABOUT 5 METRES EAST OF THE ROAD BETWEEN KAM AND GRACE LAKES NORTH WEST TERRITORIES	00NW07SB0006	62	25	30	114	25	0	877
KAM LAKE OUTFLOW STREAM ABOUT 20 YARDS DOWNSREAM FROM KAM LAKE NORTH WEST TERRITORIES	00NW07SB0007	62	24	0	114	25	30	879
LITTLE BUFFALO RIVER AT HWY 5 WEST OF FORT SMITH, NORTHWEST TERRITORIES	00NW07PB0002	60	2	39	112	46	42	859

## GREAT SLAVE LAKE

## WATER QUALITY STATIONS : ALPHABETICAL INDEX

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
LITTLE BUFFALO RIVER AT PINE POINT HWY 6 EAST OF PINE POINT, NORTHWEST TERRITORIES	00NW07PB0003	60	2	54	112	42	0	861
LOCKHART RIVER BELOW ARTILLERY LAKE, NORTHWEST TERRITORIES	00NW07RD0001 97900S001	62	53	30	108	28	30	867
PAULETTE CREEK AT HWY 6 CULVERT COMINCO PINE POINT MINES NORTHWEST TERRITORIES	00NW07PB0004	60	57	55	113	57	50	863
SLAVE RIVER AT FITZGERALD, ALBERTA	00AL07NB0001 97900S001	59	52	9	111	35	9	851
SLAVE RIVER AT WEST CHANNEL ON DIRT ROAD 5 MILES NORTHEAST OF FORT RESOLUTION, NORTHWEST TERRITORIES	00NW07NC0002	61	15		113	40		855
SNARE RIVER AT OUTLET OF BIG SPRUCE LAKE, NORTHWEST TERRITORIES	00NW07SA0001 97900S001	63	30	42	116	0	21	869
THOA RIVER ABOVE HILL ISLAND LAKE, NORTHWEST TERRITORIES	00NW07QC0001 97900S003	60	30	0	109	39	0	865
YELLOWKNIFE BAY, GREAT SLAVE LAKE (NORTH ARM), AT MILL FRESHWATER INTAKE COMINCO YELLOWKNIFE MINE, NORTHWEST TERRITORIES	01NW07SB0009	62	26	39	114	21	54	886
YELLOWKNIFE BAY, GREAT SLAVE LAKE AT FRESHWATER INTAKE FOR MILL, APPROX. 800 FEET NORTH OF BAKER CREEK DISCHARGE TO YELLOWKNIFE BAY GIANT YELLOWKNIFE MINE, NORTHWEST TERRITORIES	01NW07SB0003	62	29	15	114	21	38	894

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION **00AL07NB0001** LAT. **59 D 52 M 9 S** LONG. **111 D 35 M 9 S**UTM **12 467200E 6636800 N**

AUG 03, 1960 TO/À OCT 23, 1979

SLAVE RIVER AT FITZGERALD, ALBERTA

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0001	107(0)	105(1)	79(0)	102(3)	107(2)	107(0)	103(0)	105(1)	ECHANTILLONS(IND.)
LOW		50.	24.	16.9	L5.	.3	6.6	13.4	-2.8	MINIMUM
HIGH		289.	158.	132.	350.	1000.	8.3	116.	.4	MAXIMUM
AVERAGE		218.	117.*	99.0	39.*	90.7*		82.4		MOYENNE
STD.DEV.		36.	20.*	18.2	44.*	162.5*		15.1		ECART-TYPE
PERCNT:10TH		181.	99.	86.2	10.	4.5	7.4	69.2	-.6	10 <sup>e</sup> PERCNT
25TH		199.	105.	90.0	15.	15.0	7.7	75.6	-.5	25 <sup>e</sup>
MEDIAN 50TH		221.	117.	99.4	30.	45.0	7.8	83.9	-.2	50 <sup>e</sup> MEDIANE
75TH		236.	128.	110.	50.	80.0	8.0	92.8	.0	75 <sup>e</sup>
90TH		264.	141.	116.	65.	180.	8.1	95.9	.2	90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0001	107(0)	106(0)	107(0)	28(0)	106(0)	106(0)	107(1)	107(0)	ECHANTILLONS(IND.)
LOW		.5	1.2	5.5	5.3	0.	16.	L.1	3.9	MINIMUM
HIGH		2.4	12.3	41.6	8.9	0.	141.	16.2	51.1	MAXIMUM
AVERAGE		1.1	6.3	29.08	6.8	0.	100.	5.7*	19.0	MOYENNE
STD.DEV.		.4	2.0	6.01	.8	0.	18.	2.9*	5.4	ECART-TYPE
PERCNT:10TH		.8	4.0	23.4	5.7	0.	84.	1.8	14.0	10 <sup>e</sup> PERCNT
25TH		.9	5.2	26.0	6.2	0.	92.	3.5	15.9	25 <sup>e</sup>
MEDIAN 50TH		1.0	6.3	29.4	6.7	0.	102.	5.5	18.5	50 <sup>e</sup> MEDIANE
75TH		1.2	7.5	33.1	7.3	0.	113.	7.4	21.5	75 <sup>e</sup>
90TH		1.7	9.1	35.6	7.6	0.	117.	9.2	23.8	90 <sup>e</sup>
SECONDARY CODE		01L	01L	01L 02L				01L 02L 06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0001	11(4)	75(10)			31(6)	107(0)	12(0)	60(6)	ECHANTILLONS(IND.)
LOW		L.1	L.005			L.005	.7	5.	L.01	MINIMUM
HIGH		2.9	.555			.337	7.70	53.0	.70	MAXIMUM
AVERAGE		.7*	.098*			.065*	4.30	15.0	.12*	MOYENNE
STD.DEV.		.8*	.130*			.082*	.98	15.1	.09*	ECART-TYPE
PERCNT:10TH		L.1	L.005			L.005	3.4	6.0	.07	10 <sup>e</sup> PERCNT
25TH		.3	.020			.007	3.8	7.5	.08	25 <sup>e</sup>
MEDIAN 50TH		L.5	.050			.043	4.2	9.3	.10	50 <sup>e</sup> MEDIANE
75TH		.6	.108			.086	4.9	11.5	.14	75 <sup>e</sup>
90TH		.8	.350			.15	5.4	40.0	.19	90 <sup>e</sup>
SECONDARY CODE		02L	05L			13L	01L 05L		02L 06L 04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 1979  
GREAT SLAVE LAKE SUB BASIN

STATION 00AL07NB0001 LAT. 59 D 52M 9 S LONG. 111 D 35M 9 S

UTM 12 467200 6636800 N  
AUG 03 1960 TO/A OCT 23 1979

SLAVE RIVER AT FITZGERALD ALBERTA

		03301P LITHIUM EXTRBLE	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBLE	23302P VANADIUM EXTRBLE	24303P CHROMIUM EXTRBLE	25104L MANGANESE DISSOLVED	26305P MANGANESE EXTRBLE	31301L COBALT EXTRBLE	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	1(0)	8(4)	11(0)	4(1)	10(10)	38(37)	20(4)	15(8)	ECHANTILLONS(IND.)
LOW		.300	L.01	.10	L.001	L.010	L.010	L.01	L.001	MINIMUM
HIGH		.300	.07	3.0	.006	L.015	.01	.34	.005	MAXIMUM
AVERAGE			.03*	.822	.0025*		.010*	.070*	.002*	MOYENNE
STD.DEV.			.03*	.876	.0024*		.000*	.071*	.001*	ECART-TYPE
PERCNT:10TH				.18		L.0100	L.01	L.010	L.001	10 <sup>e</sup> PERCNT
25TH			L.01	.26	.0010*	L.01	L.01	.035	L.001	25 <sup>e</sup>
MEDIAN 50TH			.02*	.50	.0015	L.0100	L.010	.058	L.002	50 <sup>e</sup> MEDIANE
75TH			.06	1.2	.0040	L.015	L.010	.077	.003	75 <sup>e</sup>
90TH				1.82		L.0150	L.010	.115	.004	90 <sup>e</sup>
SECONDARY CODE			05L 01L	02P 05P		02P	01L	04P 04L		CODE DE SECOURS

		26104L IRON DISSOLVED	26305P IRON EXTRBLE	28302P NICKEL EXTRBLE	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE	30105L ZINC DISSOLVED	30305P ZINC EXTRBLE	33103L ARSENIC DISSOLVED	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	38(9)	27(1)	11(2)	15(8)	28(11)	15(8)	31(15)	4(3)	ECHANTILLONS(IND.)
LOW		L.001	.10	.003	L.001	.001	L.001	.004	L.000	MINIMUM
HIGH		.500	9.2	.015	L.01	.95	.024	.088	.001	MAXIMUM
AVERAGE		.058*	2.013*	.007*	.006*	.041*	.008*	.017*	.001*	MOYENNE
STD.DEV.		.099*	2.033*	.003*	.004*	.178*	.006*	.018*	.000*	ECART-TYPE
PERCNT:10TH		L.001	.27	.003	.001	.002	.001	.005		10 <sup>e</sup> PERCNT
25TH		.010	.74	L.005	.003	.004	.004	L.01	L.000	25 <sup>e</sup>
MEDIAN 50TH		.030	1.26	.006	.005	L.010	L.01	L.01	L.000	50 <sup>e</sup> MEDIANE
75TH		.06	3.0	.008	L.01	L.010	L.01	.023	.001*	75 <sup>e</sup>
90TH		.12	5.00	.010	L.01	.01	L.01	.039		90 <sup>e</sup>
SECONDARY CODE		02L 01L	04P 01L		06L 04L	06P 01L 06L	04L	01L 04L		CODE DE SECOURS

		38301P STRONTIUM EXTRBLE	42302P MOLYBDENUM EXTRBLE	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	3(0)	10(10)		15(11)	15(14)	18(14)	32(0)	22(1)	ECHANTILLONS(IND.)
LOW		.11	L.05		L.001	L.001	L.001	.6	L.1	MINIMUM
HIGH		.15	L.10		.002	L.05	L.01	2780.	2570.	MAXIMUM
AVERAGE		.13			.001*	.026*	.005*	281.	305.*	MOYENNE
STD.DEV.		.02			.000*	.025*	.003*	543	588 *	ECART-TYPE
PERCNT:10TH			L.0500		L.001	L.001	L.001	.11	.6	10 <sup>e</sup> PERCNT
25TH			L.05		L.001	L.001	L.004	.44	.36	25 <sup>e</sup>
MEDIAN 50TH		.14	L.0750		L.001	.032	.004	105.	114.	50 <sup>e</sup> MEDIANE
75TH			L.10		.001	L.05	.005	214	182	75 <sup>e</sup>
90TH			L.1000		.002	L.05	L.01	712	770	90 <sup>e</sup>
SECONDARY CODE						01L	01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION **00AL07NB0003** LAT. **59 D 48 M 50 S** LONG. **111 D 57 M 45 S**UTM **12 446000E 6630850 N**  
OCT 30, 1970 TO/À OCT 18, 1973BENCH MARK CREEK NEAR FORT SMITH,  
ALBERTA

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b> 0411	15(0)	15(0)	16(0)	16(0)	16(0)	16(0)	16(0)	15(0)	<b>ECHANTILLONS(IND.)</b>
LOW	13050.	7465.	221.	5.	1.0	6.8	44.7	.0	<b>MINIMUM</b>
HIGH	47900.	30569.	3392.	130.	30.0	8.1	185.	1.6	<b>MAXIMUM</b>
AVERAGE	30770.	19431.	1793.1	43.	5.7		112.7		<b>MOYENNE</b>
STD.DEV.	12804.	8463.	895.6	39.	7.6		39.3		<b>ECART-TYPE</b>
PERCNT:10TH	13082.	7848.	678.	5.	1.5	7.1	44.9	.0	<b>10<sup>e</sup> PERCNT</b>
25TH	20990.	13063.	1159.5	10.	2.5	7.3	88.6	.1	<b>25<sup>e</sup></b>
MEDIAN 50TH	29800.	18698.	1816.5	31.	2.8	7.6	121.0	1.0	<b>50<sup>e</sup> MEDIANE</b>
75TH	43000.	27997.	2428.0	70.	4.7	8.0	138.0	1.2	<b>75<sup>e</sup></b>
90TH	46590.	30332.	2911.	110.	18.0	8.1	153.	1.5	<b>90<sup>e</sup></b>
SECONDARY CODE					73L				CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0411	16(0)	16(0)	16(0)		15(0)	15(0)	16(0)	16(0)	<b>ECHANTILLONS(IND.)</b>
LOW	3.9	2550.	237.		0.	54.	4000.	612.	<b>MINIMUM</b>
HIGH	10.0	2900.	235.		0.	226.	0900.	2950.	<b>MAXIMUM</b>
AVERAGE	6.1	7120.9	687.19		0.	138.	0946.9	1697.1	<b>MOYENNE</b>
STD.DEV.	1.7	3201.1	294.38		0.	50.	5168.8	746.9	<b>ECART-TYPE</b>
PERCNT:10TH	4.2	2725.	269.		0.	55.	4100.	672.	<b>10<sup>e</sup> PERCNT</b>
25TH	4.5	4580.0	452.50		0.	108.	6725.0	1073.5	<b>25<sup>e</sup></b>
MEDIAN 50TH	6.4	6600.0	724.00		0.	155.	0625.0	1783.0	<b>50<sup>e</sup> MEDIANE</b>
75TH	7.2	0050.0	884.00		0.	173.	5350.0	2209.0	<b>75<sup>e</sup></b>
90TH	7.7	0500.	055.		0.	187.	6400.	2764.	<b>90<sup>e</sup></b>
SECONDARY CODE			01L					04L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0411		14(7)				16(1)	14(0)	15(0)	<b>ECHANTILLONS(IND.)</b>
LOW		L.001				L.1	4.0	.15	<b>MINIMUM</b>
HIGH		7.20				4.4	31.0	.66	<b>MAXIMUM</b>
AVERAGE		.533*				1.95*	15.3	.43	<b>MOYENNE</b>
STD.DEV.		1.919*				1.44*	6.4	.17	<b>ECART-TYPE</b>
PERCNT:10TH		L.005				.5	9.0	.16	<b>10<sup>e</sup> PERCNT</b>
25TH		L.005				.65	11.0	.27	<b>25<sup>e</sup></b>
MEDIAN 50TH		.007*				1.45	14.5	.49	<b>50<sup>e</sup> MEDIANE</b>
75TH		.030				3.20	18.0	.57	<b>75<sup>e</sup></b>
90TH		.140				4.0	22.0	.64	<b>90<sup>e</sup></b>
SECONDARY CODE		05L							CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960 1979

## GREAT SLAVE LAKE SUB-BASIN

STATION 00AL07NB0003 LAT. 59 D 48 M 50 S LONG. 111 D 57 M 45 S

UTM 12 446000E 6630850 N  
OCT 30 1970 TO/A AUG 08 1973BENCH MARK CREEK NEAR FORT SMITH  
ALBERTA

	03301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.
SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L
SAMPLES(FLAGS) 0411						15(1)		ECHANTILLONS(IND.)
LOW						L.01		MINIMUM
HIGH						.13		MAXIMUM
AVERAGE						.042*		MOYENNE
STD.DEV.						.029*		ECART-TYPE
PERCNT:10TH						.01		10 <sup>e</sup> PERCNT
25TH						.02		25 <sup>e</sup>
MEDIAN 50TH						.04		50 <sup>e</sup> MEDIANE
75TH						.05		75 <sup>e</sup>
90TH						.06		90 <sup>e</sup>
SECONDARY CODE						05L		CODE DE SECOURS

	26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	31105L ARSENIC DISSOLVED
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L
SAMPLES(FLAGS) 0411	15(0)			14(5)		15(4)		ECHANTILLONS(IND.)
LOW	.010			L.001		L.001		MINIMUM
HIGH	.39			.005		.02		MAXIMUM
AVERAGE	.141			.002*		.004*		MOYENNE
STD.DEV.	.123			.001*		.005*		ECART-TYPE
PERCNT:10TH	.030			L.001		L.001		10 <sup>e</sup> PERCNT
25TH	.040			L.001		L.001		25 <sup>e</sup>
MEDIAN 50TH	.080			.002		.002		50 <sup>e</sup> MEDIANE
75TH	.26			.003		.004		75 <sup>e</sup>
90TH	.35			.005		.005		90 <sup>e</sup>
SECONDARY CODE	02L					04L		CODE DE SECOURS

	38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.
SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L
SAMPLES(FLAGS) 0411					15(14)		5(0)	5(1)
LOW					L.001		4.	L.1.
HIGH					.008		35.	20.
AVERAGE					.001*		13.	8.
STD.DEV.					.002*		13.	8.
PERCNT:10TH					L.001			10 <sup>e</sup> PERCNT
25TH					L.001		5.	25 <sup>e</sup>
MEDIAN 50TH					L.001		6.	50 <sup>e</sup> MEDIANE
75TH					L.001		17.	75 <sup>e</sup>
90TH					L.001			90 <sup>e</sup>
SECONDARY CODE								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07NC0002** LAT. **61 D 15M**LONG. **113 D 40M**UTM **12 356000E 6794000 N**

AUG 04, 1969 TO/À OCT 18, 1973

SLAVE RIVER AT WEST CHANNEL ON DIRT  
ROAD 5 MILES NORTHEAST OF FORT

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0124	2(0)	6(0)	7(0)	7(0)	7(0)	5(0)	7(0)	5(0)	ECHANTILLONS(IND.)
LOW	0056	227.	107.	85.6	20.	19.0	7.8	72.1	-.3	MINIMUM
HIGH		278.	153.	132.	160.	120.	8.1	106.	.3	MAXIMUM
AVERAGE		253.	120.	97.3	84.	62.0		80.5		MOYENNE
STD.DEV.		36.	17.	16.3	53.	37.0		11.8		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			112.	86.5	50.	29.0	7.9	72.1	-.2	25 <sup>e</sup>
MEDIAN 50TH		253.	115.	90.0	70.	71.0	8.0	76.5	-.2	50 <sup>e</sup> MEDIANE
75TH			121.	102.	150.	87.0	8.0	83.1	.1	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03F	11F	73L		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0124	7(0)	7(0)	7(0)		5(0)	5(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW	0056	.9	6.2	26.0		0.	88.	3.5	15.0	MINIMUM
HIGH		1.9	8.2	38.3		0.	101.	8.1	27.9	MAXIMUM
AVERAGE		1.2	7.2	30.46		0.	94.	6.4	19.4	MOYENNE
STD.DEV.		.4	.7	5.05		0.	5.	1.5	4.4	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		1.0	6.5	26.7		0.	93.	5.9	16.6	25 <sup>e</sup>
MEDIAN 50TH		1.0	7.1	28.4		0.	93.	6.3	18.1	50 <sup>e</sup> MEDIANE
75TH		1.4	7.8	37.1		0.	95.	7.6	22.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01F 01L				04L		CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0124	5(1)	6(0)			6(0)	7(0)	6(0)	6(0)	ECHANTILLONS(IND.)
LOW	0056	L.0	.007			.026	3.3	7.0	.08	MINIMUM
HIGH		.9	.050			.600	4.4	16.	3.00	MAXIMUM
AVERAGE		.6*	.030			.216	3.74	10.3	.58	MOYENNE
STD.DEV.		.3*	.016			.207	.44	3.8	1.19	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.5	.020			.070	3.3	7.0	.09	25 <sup>e</sup>
MEDIAN 50TH		.7	.030			.165	3.6	9.0	.10	50 <sup>e</sup> MEDIANE
75TH		.7	.040			.27	4.2	14.0	.10	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			06F 05L			13F 13L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB BASIN

STATION 00NW07NC0002 LAT 61 D 15 M LONG. 113 D 40 M

UTM 12 356000E 6794000 N  
AUG 04 1969 TO/A OCT 18 1973SLAVE RIVER AT WEST CHANNEL ON DIRT  
ROAD 5 MILES NORTHEAST OF FORT

		03301P LITHIUM EXTRBL. LI MG/L	05103L BORON DISSOLVED B MG/L	13303P ALUMINUM EXTRBL. AL MG/L	23302P VANADIUM EXTRBL. V MG/L	24303P CHROMIUM EXTRBL. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25305P MANGANESE EXTRBL. MN MG/L	27302P COBALT EXTRBL. CO MG/L	
SAMPLES(FLAGS)	0124	5(0)	5(0)		5(5)	5(5)	2(2)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	0056	.006	.04		L.05	L.010	L.010	.03	.001	MINIMUM
HIGH		.008	.12		L.05	L.010	L.010	.14	.004	MAXIMUM
AVERAGE		.007	.07					.088	.002	MOYENNE
STD.DEV.		.001	.03					.048	.001	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.006	.04		L.05	L.010		.05	.002	25 <sup>e</sup>
MEDIAN 50TH		.006	.07		L.05	L.010	L.010	.09	.002	50 <sup>e</sup> MEDIANE
75TH		.007	.08		L.05	L.010		.13	.003	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			05L		01P	02P	01L	04P		CODE DE SECOURS

		26104L IRON DISSOLVED FE MG/L	26305P IRON EXTRBL. FE MG/L	28302P NICKEL EXTRBL. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBL. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBL. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0124	2(0)	5(0)	5(0)		6(1)		6(2)	4(2)	ECHANTILLONS(IND.)
LOW	0056	.010	1.10	.006		.002		L.001	L.005	MINIMUM
HIGH		.010	5.5	.014		L.01		.031	.010	MAXIMUM
AVERAGE		.010	3.140	.009		.007*		.013*	.006*	MOYENNE
STD.DEV.		.000	1.909	.004		.003*		.010*	.003*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			1.50	.006		.005		.007	L.005	25 <sup>e</sup>
MEDIAN 50TH		.010	3.00	.007		.007		.011*	.005*	50 <sup>e</sup> MEDIANE
75TH			4.60	.012		.009		.014	.008	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		02L	04P			06L		04L 04P		CODE DE SECOURS

		38301P STRONTIUM EXTRBL. SR MG/L	42302P MOLYBDENUM EXTRBL. MO MG/L	48102L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBL. CD MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBL. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0124	5(0)	5(5)	2(2)	5(5)		6(6)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW	0056	.08	L.05	L.001	L.001		L.001	20.	16.	MINIMUM
HIGH		.16	L.06	L.001	L.001		L.01	249.	222.	MAXIMUM
AVERAGE		.12						96.	84.	MOYENNE
STD.DEV.		.03						103.	94.	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.10	L.05		L.001		L.001	39.	30.	25 <sup>e</sup>
MEDIAN 50TH		.12	L.05	L.001	L.001		L.001	58.	49.	50 <sup>e</sup> MEDIANE
75TH		.13	L.05		L.001		L.001	154.	138.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			01P	01L		01L				

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07PA0002** LAT. **60 D 42M 45 S** LONG. **114 D 55M 0 S**UTM **11 613700E 6732400 N**  
AUG 01, 1969 TO/A JUN 10, 1974BUFFALO RIVER AT HWY 5,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>0001</b>	<b>15(0)</b>	<b>17(0)</b>	<b>23(0)</b>	<b>25(0)</b>	<b>25(0)</b>	<b>17(0)</b>	<b>24(0)</b>	<b>15(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0124</b>	<b>101.</b>	<b>85.</b>	<b>71.9</b>	<b>30.</b>	<b>.8</b>	<b>7.6</b>	<b>53.4</b>	<b>-4</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0056</b>	<b>802.</b>	<b>558.</b>	<b>416.</b>	<b>240.</b>	<b>93.0</b>	<b>8.3</b>	<b>139.</b>	<b>.5</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>344.</b>	<b>211.</b>	<b>153.6</b>	<b>85.</b>	<b>35.2</b>		<b>90.9</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>223.</b>	<b>159.</b>	<b>103.5</b>	<b>53.</b>	<b>31.6</b>		<b>25.3</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>172.</b>	<b>91.</b>	<b>80.3</b>	<b>35.</b>	<b>5.3</b>	<b>7.7</b>	<b>62.7</b>	<b>-.4</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>195.</b>	<b>114.</b>	<b>95.8</b>	<b>50.</b>	<b>8.1</b>	<b>7.9</b>	<b>71.8</b>	<b>-.1</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>270.</b>	<b>160.</b>	<b>109.</b>	<b>70.</b>	<b>31.0</b>	<b>8.0</b>	<b>88.0</b>	<b>.2</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>406.</b>	<b>221.</b>	<b>149.</b>	<b>100.</b>	<b>62.0</b>	<b>8.1</b>	<b>107.5</b>	<b>.4</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>760.</b>	<b>522.</b>	<b>391.</b>	<b>160.</b>	<b>85.</b>	<b>8.2</b>	<b>130.</b>	<b>.5</b>	<b>90<sup>e</sup></b>
SECONDARY CODE				03F	11F	73L		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0001</b>	<b>25(0)</b>	<b>25(0)</b>	<b>24(0)</b>	<b>1(0)</b>	<b>19(0)</b>	<b>19(0)</b>	<b>25(0)</b>	<b>23(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0124</b>	<b>.8</b>	<b>3.0</b>	<b>16.</b>	<b>4.6</b>	<b>0.</b>	<b>65.</b>	<b>2.3</b>	<b>17.1</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0056</b>	<b>2.3</b>	<b>16.8</b>	<b>129.</b>	<b>4.6</b>	<b>0.</b>	<b>169.</b>	<b>14.0</b>	<b>315.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>1.4</b>	<b>7.1</b>	<b>44.64</b>	<b>0.</b>	<b>111.</b>	<b>4.3</b>	<b>65.0</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.4</b>	<b>3.1</b>	<b>33.27</b>		<b>0.</b>	<b>32.</b>	<b>2.7</b>	<b>91.0</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.9</b>	<b>3.3</b>	<b>22.6</b>		<b>0.</b>	<b>67.</b>	<b>2.4</b>	<b>18.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>1.1</b>	<b>4.8</b>	<b>26.95</b>		<b>0.</b>	<b>87.</b>	<b>2.7</b>	<b>20.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>1.3</b>	<b>7.1</b>	<b>34.00</b>		<b>0.</b>	<b>108.</b>	<b>3.9</b>	<b>29.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>1.6</b>	<b>8.8</b>	<b>42.35</b>		<b>0.</b>	<b>134.</b>	<b>4.5</b>	<b>51.0</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>2.0</b>	<b>11.0</b>	<b>126.</b>		<b>0.</b>	<b>166.</b>	<b>8.7</b>	<b>278.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE				01L 01F				06L	04L 01L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	C MG/L	F MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0124</b>	<b>10(0)</b>	<b>24(3)</b>			<b>13(0)</b>	<b>25(0)</b>	<b>22(0)</b>	<b>19(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0001</b>	<b>.6</b>	<b>L.001</b>			<b>.023</b>	<b>.3</b>	<b>14.0</b>	<b>.07</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0056</b>	<b>1.3</b>	<b>.360</b>			<b>.230</b>	<b>7.2</b>	<b>32.0</b>	<b>.31</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>1.0</b>	<b>.061*</b>			<b>.114</b>	<b>3.34</b>	<b>21.3</b>	<b>.14</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.2</b>	<b>.079*</b>			<b>.068</b>	<b>1.58</b>	<b>5.1</b>	<b>.05</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.7</b>	<b>L.005</b>			<b>.047</b>	<b>1.5</b>	<b>15.0</b>	<b>.09</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.9</b>	<b>.016</b>			<b>.064</b>	<b>2.0</b>	<b>18.0</b>	<b>.11</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>1.0</b>	<b>.031</b>			<b>.083</b>	<b>3.4</b>	<b>21.5</b>	<b>.14</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>1.1</b>	<b>.070</b>			<b>.160</b>	<b>4.5</b>	<b>25.0</b>	<b>.15</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>1.2</b>	<b>.140</b>			<b>.210</b>	<b>5.2</b>	<b>27.</b>	<b>.23</b>	<b>90<sup>e</sup></b>
SECONDARY CODE		02L	06F 05L			13F 13L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## GREAT SLAVE LAKE SUB BASIN

STATION 00NW07PA0002 LAT. 60 D 42M 45 S LONG. 114 D 55M 0 S

UTM 11 613700E 6732400 N  
AUG 01 1969 TO/A JUN 10 1974BUFFALO RIVER AT HWY 5  
NORTHWEST TERRITORIES

		03301P LITHIUM EXTRBLE.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24303P CHROMIUM EXTRBLE.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS)	0124	11(2)	11(1)		11(11)	12(12)	11(10)	12(1)	12(5)	ECHANTILLONS(IND.)
LOW	0001	L.005	L.02		L.05	L.010	L.01	L.01	L.001	MINIMUM
HIGH	0056	.015	.20		L.05	L.015	.02	.12	.007	MAXIMUM
AVERAGE		.007*	.12*				.011*	.071*	.003*	MOYENNE
STD.DEV.		.003*	.05*				.003*	.043*	.002*	ECART-TYPE
PERCNT:10TH		L.005	.07		L.05	L.010	L.01	.01	L.001	10 <sup>e</sup> PERCNT
25TH		.005	.09		L.05	L.0100	L.010	.030	L.001	25 <sup>e</sup>
MEDIAN 50TH		.006	.12		L.05	L.0100	L.01	.080	.002	50 <sup>e</sup> MEDIANE
75TH		.008	.15		L.05	L.0100	L.01	.110	.004	75 <sup>e</sup>
90TH		.009	.19		L.05	L.010	L.01	.12	.004	90 <sup>e</sup>
SECONDARY CODE			05L		01P	02P	01L	04P		CODE DE SECOURS

		26104L IRON DISSOLVED	26305P IRON EXTRBLE.	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0001	11(0)	12(0)	12(0)	10(1)	13(3)	10(4)	12(3)	9(7)	ECHANTILLONS(IND.)
LOW	0124	.020	.32	.003	L.001	L.001	L.001	L.001	L.000	MINIMUM
HIGH	0056	.120	5.20	.013	.020	L.01	L.01	.021	.010	MAXIMUM
AVERAGE		.055	2.380	.008	.006*	.005*	.005*	.010*	.005*	MOYENNE
STD.DEV.		.030	1.869	.003	.005*	.003*	.004*	.006*	.003*	ECART-TYPE
PERCNT:10TH		.030	.39	.005	.002*	L.001	.001*	.005		10 <sup>e</sup> PERCNT
25TH		.030	.525	.006	.003	.003	.001	.006	L.005	25 <sup>e</sup>
MEDIAN 50TH		.050	1.700	.007	.004	.005	.005	.009*	L.005	50 <sup>e</sup> MEDIANE
75TH		.080	4.100	.010	.005	.007	L.01	.013	L.005	75 <sup>e</sup>
90TH		.080	5.00	.012	.015	.007	L.010	.019		90 <sup>e</sup>
SECONDARY CODE		02L	04P			06L	04L	04P 04L	04L	CODE DE SECOURS

		38301P STRONTIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	12(1)	11(11)	1(1)	12(10)	9(7)	13(11)	16(0)	15(1)	ECHANTILLONS(IND.)
LOW	0124	L.02	L.05	L.001	L.001	L.001	L.001	4.	L.1	MINIMUM
HIGH	0056	.13	L.10	L.001	.002	.004	L.01	149.	130.	MAXIMUM
AVERAGE		.06*			.001*	.002*	.002*	55.	47.*	MOYENNE
STD.DEV.		.03*			.000*	.001*	.003*	55.	49.*	ECART-TYPE
PERCNT:10TH		.03	L.05		L.001		L.001	6.	1.	10 <sup>e</sup> PERCNT
25TH		.05	L.05		L.001	L.001	L.001	12.	6.	25 <sup>e</sup>
MEDIAN 50TH		.07	L.05		L.001	L.001	L.001	23.	22.	50 <sup>e</sup> MEDIANE
75TH		.07	L.05		L.001	L.001	.003	109.	97.	75 <sup>e</sup>
90TH		.08	L.05		.001		.006	142.	116.	90 <sup>e</sup>
SECONDARY CODE			01P 01L	01L			01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979  
GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07PB0002** LAT. **60 D 2 M 39 S** LONG. **112 D 46 M 42 S**

UTM **12 400900E . 6657500 N**  
AUG 01, 1969 TO/A AUG 21, 1973

LITTLE BUFFALO RIVER AT HWY 5 WEST OF  
FORT SMITH, NORTHWEST TERRITORIES

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CAC03 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	0001	14(0)	13(0)	14(0)	14(0)	13(0)	13(0)	12(0)	<b>ECHANTILLONS(IND.)</b>
LOW	0124	498.	334.	274.	15.	7.7	105.	.3	<b>MINIMUM</b>
HIGH	0056	2300.	2011.	1492.	100.	8.5	233.	1.8	<b>MAXIMUM</b>
AVERAGE		1343.	1009.	760.1	45.	2.5	163.9		<b>MOYENNE</b>
STD.DEV.		511.	455.	336.3	25.	1.2	45.7		<b>ECART-TYPE</b>
PERCNT:10TH		847.	580.	440.	20.	.8	117.	.7	<b>10<sup>e</sup> PERCNT</b>
25TH		875.	626.	482.	25.	1.7	123.	.8	<b>25<sup>e</sup></b>
MEDIAN 50TH		1358.	1025.	802.	45.	2.5	8.0	149.	<b>1.0 50<sup>e</sup> MEDIANE</b>
75TH		1692.	1303.	984.	60.	2.9	8.1	204.	<b>1.3 75<sup>e</sup></b>
90TH		1887.	1376.	1032.	70.	4.0	8.3	223.	<b>1.4 90<sup>e</sup></b>
SECONDARY CODE				11F	73L				CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	0001	13(0)	13(0)	13(0)	12(0)	12(0)	13(0)	13(0)	<b>ECHANTILLONS(IND.)</b>
LOW	0056	1.0	8.5	90.0	0.	128.	6.3	135.	<b>MINIMUM</b>
HIGH	0124	5.6	53.0	501.	3.	284.	50.0	1212.	<b>MAXIMUM</b>
AVERAGE		2.5	28.7	243.54	0.	204.	26.4	572.5	<b>MOYENNE</b>
STD.DEV.		1.3	14.2	110.43	1.	55.	15.2	285.5	<b>ECART-TYPE</b>
PERCNT:10TH		1.2	14.0	144.	0.	143.	8.1	318.	<b>10<sup>e</sup> PERCNT</b>
25TH		1.7	15.2	155.	0.	157.	13.7	350.	<b>25<sup>e</sup></b>
MEDIAN 50TH		2.2	27.2	249.	0.	202.	24.1	561.	<b>50<sup>e</sup> MEDIANE</b>
75TH		2.8	43.0	304.	0.	256.	38.5	748.	<b>75<sup>e</sup></b>
90TH		4.2	44.0	336.	0.	272.	49.0	799.	<b>90<sup>e</sup></b>
SECONDARY CODE			01L					04L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	F MG/L	
<b>SAMPLES(FLAGS)</b>	0001	1(0)	10(5)		1(0)	13(0)	7(0)	8(0)	<b>ECHANTILLONS(IND.)</b>
LOW	0124	1.3	L.001		.013	.6	2.0	.29	<b>MINIMUM</b>
HIGH	0056	1.3	5.00		.013	10.1	31.0	.77	<b>MAXIMUM</b>
AVERAGE			.525*			3.74	15.7	.50	<b>MOYENNE</b>
STD.DEV.			1.573*			2.87	9.3	.15	<b>ECART-TYPE</b>
PERCNT:10TH			L.001			.7			<b>10<sup>e</sup> PERCNT</b>
25TH			L.005			1.5	8.0	.40	<b>25<sup>e</sup></b>
MEDIAN 50TH			.012*			3.7	17.0	.49	<b>50<sup>e</sup> MEDIANE</b>
75TH			.070			4.2	20.0	.58	<b>75<sup>e</sup></b>
90TH			2.550			8.6			<b>90<sup>e</sup></b>
SECONDARY CODE		06F 05L			13L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB BASIN

STATION 00NW07PB0002 LAT. 60 D 2 M 39 S LONG. 112 D 46 M 42 S

UTM 12 400900: 6657500 N  
AUG 01 1969 TO/A APR 27 1973LITTLE BUFFALO RIVER AT HWY 5 WEST OF  
FORT SMITH NORTHWEST TERRITORIES

		03301P LITHIUM EXTRBLE. LI MG/L	05103L BORON DISSOLVED B MG/L	13303P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24303P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25305P MANGANESE EXTRBLE. MN MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS)	0001	1(0)	1(0)		1(1)	1(1)	7(5)	1(1)	1(0)	ECHANTILLONS(IND.)
LOW	0056	.029	.17		L.05	L.010	.005	L.01	.001	MINIMUM
HIGH	0124	.029	.17		L.05	L.010	.10	L.01	.001	MAXIMUM
AVERAGE							.022*			MOYENNE
STD.DEV.							.034*			ECART-TYPE
PERCENT:10TH										10 <sup>e</sup> PERCNT
25TH							L.01			25 <sup>e</sup>
MEDIAN 50TH							L.010			50 <sup>e</sup> MEDIANE
75TH							L.01			75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			05L		01P	02P	01L 05L	04P		CODE DE SECOURS

		26104L IRON DISSOLVED FE MG/L	26305P IRON EXTRBLE. FE MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0001	7(0)	1(0)	1(1)	6(1)	2(1)	6(2)	2(1)	1(1)	ECHANTILLONS(IND.)
LOW	0124	.020	.06	L.001	L.001	.003	L.001	.003	L.005	MINIMUM
HIGH	0056	.15	.06	L.001	.003	L.01	.007	L.01	L.005	MAXIMUM
AVERAGE		.056			.002*	.006*	.003*	.006*		MOYENNE
STD.DEV.		.048			.001*	.005*	.003*	.005*		ECART-TYPE
PERCENT:10TH										10 <sup>e</sup> PERCNT
25TH		.020			.001		L.001			25 <sup>e</sup>
MEDIAN 50TH		.040			.002	.006*	.002	.006*		50 <sup>e</sup> MEDIANE
75TH		.09			.002		.006			75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		02L	04P			06L		04L		CODE DE SECOURS

		38301P STRONTIUM EXTRBLE. SR MG/L	42302P MOLYBDENUM EXTRBLE. MO MG/L	48102L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBLE. CD MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBLE. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR MG/L	
SAMPLES(FLAGS)	0001	1(0)	1(1)	1(1)	1(1)	6(5)	2(1)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW	0056	1.80	L.05	L.001	L.001	L.001	L.01	21.	9.	MINIMUM
HIGH	0124	1.80	L.05	L.001	L.001	.004	.018	21.	9.	MAXIMUM
AVERAGE						.001*	.014*			MOYENNE
STD.DEV.						.001*	.006*			ECART-TYPE
PERCENT:10TH										10 <sup>e</sup> PERCNT
25TH						L.001				25 <sup>e</sup>
MEDIAN 50TH						L.001	.014*			50 <sup>e</sup> MEDIANE
75TH						L.001				75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			01P	01L			01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-1979  
GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07PB0003** LAT. **60 D 2 M 54 S** LONG. **112 D 42 M 0 S**

UTM **12 405300E 6657800 N**  
OCT 04, 1972 TO/À JUN 10, 1974

LITTLE BUFFALO RIVER AT PINE POINT  
HWY 6 EAST OF PINE POINT.

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b> 0124	3(0)	6(0)	9(0)	8(0)	9(0)	6(0)	9(0)	5(0)	<b>ECHANTILLONS(IND.)</b>
LOW	1390.	1200.	475.	10.	1.2	7.6	86.0	.9	<b>MINIMUM</b>
HIGH	4956.	3790.	2018.	70.	27.0	8.1	317.	1.4	<b>MAXIMUM</b>
AVERAGE	3427.	2284.	1208.0	43.	8.3		157.3		<b>MOYENNE</b>
STD.DEV.	1837.	952.	468.8	24.	10.1		64.4		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH		1683.	905.	23.	2.3	7.9	132.	1.3	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>3936.</b>	<b>2017.</b>	<b>1176.</b>	<b>43.</b>	<b>3.9</b>	<b>8.0</b>	<b>146.</b>	<b>1.3</b>	<b>50<sup>e</sup> MEDIANE</b>
75TH		2998.	1446.	65.	5.3	8.0	159.	1.3	<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE			03F	11F			01F		CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b> 0124	9(1)	9(0)	8(0)		7(0)	7(0)	8(0)	9(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.1	36.0	146.		0.	156.	32.0	400.	<b>MINIMUM</b>
HIGH	4.8	476.	406.		0.	386.	740.	1633.	<b>MAXIMUM</b>
AVERAGE	2.7*	213.2	449.88		0.	206.	279.3	987.9	<b>MOYENNE</b>
STD.DEV.	1.4*	144.9	404.46		0.	82.	243.8	384.1	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	2.0	118.	225.00		0.	161.	89.0	740.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>2.7</b>	<b>160.</b>	<b>342.00</b>		<b>0.</b>	<b>178.</b>	<b>209.5</b>	<b>985.</b>	<b>50<sup>e</sup> MEDIANE</b>
75TH	2.8	330.	456.50		0.	207.	432.5	1113.	<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE			01F 01L				06L	04L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	F MG/L	
<b>SAMPLES(FLAGS)</b> 0124	8(0)	9(3)			8(2)	9(0)	7(0)	9(0)	<b>ECHANTILLONS(IND.)</b>
LOW	.6	L.001			.003	3.3	2.0	.25	<b>MINIMUM</b>
HIGH	1.1	.10			.310	13.2	23.	.80	<b>MAXIMUM</b>
AVERAGE	.9	.037*			.062*	6.64	13.9	.61	<b>MOYENNE</b>
STD.DEV.	.2	.038*			.107*	3.21	7.8	.17	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	.7	L.001			L.005	3.7	8.0	.52	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.9</b>	<b>.02</b>			<b>.016</b>	<b>6.0</b>	<b>13.</b>	<b>.69</b>	<b>50<sup>e</sup> MEDIANE</b>
75TH	1.0	.070			.070	7.8	22.0	.70	<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE	02L	06F			13F 13L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION 00NW07PB0003 LAT. 60 D 2 M 54 S LONG. 112 D 42 M 0 S

UTM 12 405300E 6657800 N  
OCT 04 1972 TO/A JUN 10 1974LITTLE BUFFALO RIVER AT PINE POINT  
HWY 6 EAST OF PINE POINT

		03301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS)	0124	9(0)	9(0)		8(8)	8(8)		9(1)	8(3)	ECHANTILLONS(IND.)
LOW		.009	.09		L.05	L.010		L.01	L.001	MINIMUM
HIGH		.044	.62		L.05	L.010		.17	.004	MAXIMUM
AVERAGE		.024	.33					.052*	.002*	MOYENNE
STD.DEV.		.011	.15					.065*	.001*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.019	.28		L.0500	L.0100		.015	L.001	25 <sup>e</sup>
MEDIAN 50TH		.021	.33		L.0500	L.0100		.02	.002	50 <sup>e</sup> MEDIANE
75TH		.033	.36		L.0500	L.0100		.03	.002	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			05L		01P	02P		04P		CODE DE SECOURS

		26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0124		9(0)	8(1)		9(4)		9(4)	7(6)	ECHANTILLONS(IND.)
LOW			.13	L.001		L.001		L.001	L.000	MINIMUM
HIGH			1.70	.006		.004		.014	.010	MAXIMUM
AVERAGE			.420	.004*		.002*		.005*	.005*	MOYENNE
STD.DEV.			.488	.002*		.001*		.005*	.003*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.21	.004		L.001		L.001	L.005	25 <sup>e</sup>
MEDIAN 50TH			.32	.004		.001		.003	L.005	50 <sup>e</sup> MEDIANE
75TH			.35	.005		.002		.005	L.005	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			04P					04P	04L	CODE DE SECOURS

		38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	8(0)	8(6)		9(8)		9(8)	5(0)	3(1)	ECHANTILLONS(IND.)
LOW		1.30	L.05		L.001		L.001	2.	L.1	MINIMUM
HIGH		5.20	L.1		.001		.008	54.	4.	MAXIMUM
AVERAGE		3.35	.0662*		.001*		.002*	15.	3.	MOYENNE
STD.DEV.		1.50	.0177*		.000*		.002*	22.	2.*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		2.20	L.0500		L.001		L.001	4.		25 <sup>e</sup>
MEDIAN 50TH		3.05	.0650*		L.001		L.001	7.	3.	50 <sup>e</sup> MEDIANE
75TH		4.90	.0750*		L.001		L.001	9.		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			01P							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979  
GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07PB0004** LAT. **60 D 57 M 55 S** LONG. **113 D 57 M 50 S**

UTM **12 339600 E 6762400 N**  
MAY 02, 1975 TO/A SEP 14, 1976

PAULETTE CREEK AT HWY 6 CULVERT  
COMINCO PINE POINT MINES

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
SAMPLES(FLAGS) 0018	8(0)		8(0)	8(0)	8(0)	8(0)	8(0)		ECHANTILLONS(IND.)
LOW	959.		463.	20.	.8	7.5	146.		MINIMUM
HIGH	2146.		1189.	80.	3.4	8.	446.		MAXIMUM
AVERAGE	1711.		896.4	50.	1.6		285.8		MOYENNE
STD.DEV.	439.		255.8	19.	.8		82.4		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1350.		685.0	40.	1.0	7.7	259.0		25 <sup>e</sup>
MEDIAN 50TH	1868.		975.5	50.	1.5	7.8	282.0		50 <sup>e</sup> MEDIANE
75TH	2073.		1099.0	60.	1.9	7.8	306.0		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					73L				CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0018			8(0)				3(0)	6(0)	ECHANTILLONS(IND.)
LOW			106.				48.0	6.8	MINIMUM
HIGH			355.				270.	820.	MAXIMUM
AVERAGE			221.63				139.3	466.1	MOYENNE
STD.DEV.			73.80				116.1	334.6	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			181.50					220.	25 <sup>e</sup>
MEDIAN 50TH			222.00				100.	500.0	50 <sup>e</sup> MEDIANE
75TH			252.50					750.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE			01L					06L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SUBM ID									
SAMPLES(FLAGS) 0018		7(5)							ECHANTILLONS(IND.)
LOW		L.005							MINIMUM
HIGH		.025							MAXIMUM
AVERAGE		.013*							MOYENNE
STD.DEV.		.007*							ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.01							25 <sup>e</sup>
MEDIAN 50TH		L.01							50 <sup>e</sup> MEDIANE
75TH		.021							75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB BASIN

LAT. 60° 57' N LONG. 113° 57' W

UTM 12 339600 6762400

JUN 24, 1975 TO/A JUN 24, 1975

PAULETTE CREEK AT HWY 6 CULVERT  
COMINCO PINE POINT MINES

	03301P LITHIUM EXTRBL. LI MG/L	05103L BORON DISSOLVED B MG/L	13303P ALUMINUM EXTRBL. AL MG/L	23302P VANADIUM EXTRBL. V MG/L	24303P CHROMIUM EXTRBL. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25305P MANGANESE EXTRBL. MN MG/L	27302P COBALT EXTRBL. CO MG/L	
SAMPLES(FLAGS) 0018							1(0)	1(1)	ECHANTILLONS(IND.)
LOW							.03	L.001	MINIMUM
HIGH							.03	L.001	MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE							04P		CODE DE SECOURS

	26104L IRON DISSOLVED FE MG/L	26305P IRON EXTRBL. FE MG/L	28302P NICKEL EXTRBL. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBL. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBL. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS) 0018		7(0)	7(7)		7(5)		7(4)		ECHANTILLONS(IND.)
LOW		.06	L.004		.002		.004		MINIMUM
HIGH		.23	L.05		L.01		.01		MAXIMUM
AVERAGE		.104			.008*		.009*		MOYENNE
STD.DEV.		.058			.003*		.002*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.07	L.005		.004		.009		25 <sup>e</sup>
MEDIAN 50TH		.09	L.05		L.01		L.01		50 <sup>e</sup> MEDIANE
75TH		.11	L.05		L.01		L.01		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		04P	01P		06P		04P		CODE DE SECOURS

	38301P STRONTIUM EXTRBL. SR MG/L	42302P MOLYBDENUM EXTRBL. MO MG/L	48102L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBL. CD MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBL. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS) 0018				1(1)		6(4)	2(0)		ECHANTILLONS(IND.)
LOW				L.001		L.005	3.		MINIMUM
HIGH				L.001		.05	8.		MAXIMUM
AVERAGE						.042*	5.		MOYENNE
STD.DEV.						.018*	4.		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH						L.05			25 <sup>e</sup>
MEDIAN 50TH						L.050	5.		50 <sup>e</sup> MEDIANE
75TH						.05			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE						01P			CODE DE SECOURS

\* These statistics include flagged values./Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979  
GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07QC0001** LAT. **60 D 30 M 0 S** LONG. **109 D 39 M 0 S**

UTM **12 574200E 6707600 N**  
MAY 28, 1969 TO/À SEP 27, 1976

THOA RIVER ABOVE HILL ISLAND LAKE,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0001	13(0)	14(6)	14(0)	13(1)	13(0)	14(0)	14(0)	14(6)	MINIMUM
HIGH	0018	31.	Q14.	11.9	L5.	.4	6.8	9.1	Q-3.0	MAXIMUM
AVERAGE		129.	63.	20.5	40.	2.2	8.2	13.0	-1.4	MOYENNE
STD.DEV.		43.	20.*	14.5	18.*	1.2		11.4		ECART-TYPE
		26.	12.*	2.5	10.*	.6		1.3		
PERCNT:10TH		32.	Q15.	12.5	5.	.4	7.1	9.5	-2.8	10 <sup>e</sup> PERCNT
25TH		34.	Q16.	13.3	10.	.9	7.1	10.2	Q-2.6	25 <sup>e</sup>
MEDIAN 50TH		35.	17.	13.9	20.	1.3	7.1	11.9	-2.5	50 <sup>e</sup> MEDIANE
75TH		38.	18.	14.3	25.	1.6	7.3	12.5	-2.3	75 <sup>e</sup>
90TH		42.	23.	19.9	30.	1.9	7.4	12.7	-2.2	90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001	14(0)	14(0)	14(0)		10(0)	10(0)	14(0)	14(6)	MINIMUM
HIGH	0018	.4	1.0	3.8		0.	11.	1.0	L1.0	MAXIMUM
AVERAGE		1.0	16.5	5.7		0.	15.	24.3	6.6	MOYENNE
STD.DEV.		.7	2.4	4.39		0.	14.	3.1	2.0*	ECART-TYPE
		.1	4.1	.53		0.	2.	6.1	1.8*	
PERCNT:10TH		.6	1.1	3.8		0.	11.	1.0	L1.0	10 <sup>e</sup> PERCNT
25TH		.6	1.2	4.0		0.	12.	1.1	L1.0	25 <sup>e</sup>
MEDIAN 50TH		.7	1.3	4.25		0.	14.	1.5	1.1	50 <sup>e</sup> MEDIANE
75TH		.7	1.5	4.7		0.	15.	1.7	2.1	75 <sup>e</sup>
90TH		.9	1.6	5.1		0.	15.	2.2	5.6	90 <sup>e</sup>
SECONDARY CODE				01L					04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001	1(1)	12(7)			1(0)	14(0)	6(0)	11(2)	MINIMUM
HIGH	0018	L.5	L.001			.008	1.9	8.0	.05	MAXIMUM
AVERAGE		L.5	.030			.008	3.4	11.0	.18	MOYENNE
STD.DEV.			.012*				2.56	9.3	.09*	ECART-TYPE
			.010*				.41	1.2	.04*	
PERCNT:10TH			L.005				2.1		.06	10 <sup>e</sup> PERCNT
25TH			L.005				2.3	8.0	.06	25 <sup>e</sup>
MEDIAN 50TH			L.007				2.50	9.5	.08	50 <sup>e</sup> MEDIANE
75TH			.020				2.7	10.0	L.10	75 <sup>e</sup>
90TH			.030				3.2		.10	90 <sup>e</sup>
SECONDARY CODE			05L			13L			04L 06L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB BASIN

STATION 00NW07QC0001 LAT. 60 D 30 M 0 S LONG. 109 D 39 M 0 S

UTM 12 574200E 6707600 N  
MAY 28 1969 TO/A SEP 27 1976THOA RIVER ABOVE HILL ISLAND LAKE  
NORTHWEST TERRITORIES

	03301P LITHIUM EXTRBLE. LI MG/L	05103L BORON DISSOLVED B MG/L	13303P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24303P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25305P MANGANESE EXTRBLE. MN MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS) 0001						8(7)	3(2)	1(1)	ECHANTILLONS(IND.)
LOW 0018						L.01	L.01	L.001	MINIMUM
HIGH						.02	.02	L.001	MAXIMUM
AVERAGE						.011*	.013*		MOYENNE
STD.DEV.						.004*	.006*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH						L.010			25 <sup>e</sup>
MEDIAN 50TH						L.010	L.01		50 <sup>e</sup> MEDIANE
75TH						L.010			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE						01L	04L 04P		CODE DE SECOURS

	26104L IRON DISSOLVED FE MG/L	26305P IRON EXTRBLE. FE MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS) 0001	10(2)	1(1)	1(1)	7(3)	3(2)	7(1)	3(1)		ECHANTILLONS(IND.)
LOW 0018	.010	L.05	L.005	L.001	.002	L.001	L.01		MINIMUM
HIGH	.10	L.05	L.005	.004	L.01	.016	.03		MAXIMUM
AVERAGE	.044*			.002*	.007*	.004*	.023*		MOYENNE
STD.DEV.	.025*			.001*	.005*	.005*	.011*		ECART-TYPE
PERCNT:10TH	.020								10 <sup>e</sup> PERCNT
25TH	.030			L.001		.001			25 <sup>e</sup>
MEDIAN 50TH	.035			.001	L.01	.002	.029		50 <sup>e</sup> MEDIANE
75TH	L.05			.003		.005			75 <sup>e</sup>
90TH	.085								90 <sup>e</sup>
SECONDARY CODE	02L	04P			06L		04L		CODE DE SECOURS

	38301P STRONTIUM EXTRBLE. SR MG/L	42302P MOLYBDENUM EXTRBLE. MO MG/L	48102L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBLE. CD MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBLE. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS) 0001				1(1)	7(5)	3(3)			ECHANTILLONS(IND.)
LOW 0018				L.001	L.001	L.005			MINIMUM
HIGH				L.001	.008	L.01			MAXIMUM
AVERAGE					.003*				MOYENNE
STD.DEV.					.003*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					L.001				25 <sup>e</sup>
MEDIAN 50TH					L.001	L.01			50 <sup>e</sup> MEDIANE
75TH					.008				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-1979  
GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07RD0001** LAT. **62 D 53 M 30 S** LONG. **108 D 28 M 30 S**

UTM **12 629000E 6976000 N**  
JUN 12, 1969 TO/A NOV 20, 1979

LOCKHART RIVER BELOW ARTILLERY LAKE,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID		USIE/CM								
SAMPLES(FLAGS)	0001	22(0)	22(12)	19(0)	22(12)	22(1)	22(0)	20(0)	22(12)	ECHANTILLONS(IND.)
LOW	0018	11.	Q5.	2.2	L5.	.2	6.4	.5	-4.8	MINIMUM
HIGH		26.	15.	28.3	20.	5.5	7.7	6.8	-2.5	MAXIMUM
AVERAGE		16.	8.*	7.9	6.*	1.6*		3.9		MOYENNE
STD.DEV.		3.	2.*	5.5	3.*	1.5*		1.2		ECART-TYPE
PERCNT:10TH		14.	Q6.	4.8	L5.	.3	6.7	2.3	Q-4.1	10 <sup>e</sup> PERCNT
25TH		14.	Q7.	5.3	L5.	.5	6.8	3.7	-3.9	25 <sup>e</sup>
MEDIAN 50TH		15.	7.	5.8	L5.	1.0	7.0	3.9	-3.6	50 <sup>e</sup> MEDIANE
75TH		17.	9.	9.5	5.	2.0	7.1	4.6	Q-3.4	75 <sup>e</sup>
90TH		19.	10.	12.3	5.	3.7	7.3	4.9	Q-3.1	90 <sup>e</sup>
SECONDARY CODE						73L	CODE DE SECOURS			

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB BASIN

STATION 00NW07RD0001 LAT. 62 D 53 M 30 S LONG. 108 D 28 M 30 S

UTM 12 629000E 6976000 N  
JUN 12 1969 TO/A NOV 20 1979LOCKHART RIVER BELOW ARTILLERY LAKE  
NORTHWEST TERRITORIES

	03301P LITHIUM EXTRBLE.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24303P CHROMIUM EXTRBLE.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBLE.	27302P COBALT EXTRBLE.	
SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS)	0001	3(3)	6(4)	3(2)	5(5)	5(5)	15(14)	11(7)	ECHANTILLONS(IND.)
LOW	0018	L.02	L.021	L.001	L.01	L.010	L.01	L.001	MINIMUM
HIGH		L.02	.1	.001	L.015	L.01	.30	.005	MAXIMUM
AVERAGE			.087*	.0010*			.029*	.002*	MOYENNE
STD.DEV.			.032*	.0000*			.075*	.001*	ECART-TYPE
PERCNT:10TH							L.01	L.001	10 <sup>e</sup> PERCNT
25TH			L.1		L.015	L.01	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.02	L.100	L.001	L.015	L.01	L.010	L.002	50 <sup>e</sup> MEDIANE
75TH			L.10		L.015	L.01	L.01	.002	75 <sup>e</sup>
90TH							L.01	.002	90 <sup>e</sup>
SECONDARY CODE		05L	02P 05P		02P	01	04L 04P		CODE DE SECOURS

	26104L IRON DISSOLVED	26305P IRON EXTRBLE.	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0001	9(6)	11(11)	8(6)	5(0)	15(8)	4(0)	15(7)	ECHANTILLONS(IND.)
LOW	0018	L.001	L.04	L.002	.001	L.001	.003	L.001	MINIMUM
HIGH		.080	L.05	L.005	.003	.015	.022	.035	MAXIMUM
AVERAGE		.024*		.004*	.002	.005*	.009	.008*	MOYENNE
STD.DEV.		.029*		.001*	.001	.005*	.009	.010*	ECART-TYPE
PERCNT:10TH			L.04			L.001		L.001	10 <sup>e</sup> PERCNT
25TH		L.001	L.04	.002*	.002	L.001	.004	.001	25 <sup>e</sup>
MEDIAN 50TH		.010	L.04	.004*	.002	.001	.005	.004	50 <sup>e</sup> MEDIANE
75TH		L.05	L.05	L.005	.003	L.01	.014	L.01	75 <sup>e</sup>
90TH			L.05			L.01	.023		90 <sup>e</sup>
SECONDARY CODE	02L	04P			06L		04L	04L	CODE DE SECOURS

	38301P STRONTIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	10401L RESIDUE NONFILTR	10501L RESIDUE FIXED NONFILTR	
SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	1(1)	5(5)	11(7)	5(5)	15(13)	2(1)		ECHANTILLONS(IND.)
LOW	0018	L.01	L.05	L.001	L.001	L.004	L.1		MINIMUM
HIGH		L.01	L.10	.003	L.001	L.01	1.		MAXIMUM
AVERAGE				.001*		.006*	1.*		MOYENNE
STD.DEV.				.001*		.003*	0*		ECART-TYPE
PERCNT:10TH				L.001		L.004			10 <sup>e</sup> PERCNT
25TH			L.10	L.001	L.001	L.004			25 <sup>e</sup>
MEDIAN 50TH			L.10	L.001	L.001	L.005	1.*		50 <sup>e</sup> MEDIANE
75TH			L.10	.001	L.001	L.01			75 <sup>e</sup>
90TH				.002		L.01			90 <sup>e</sup>
SECONDARY CODE						01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION 00NW07SA0001 LAT. 63 D 30 M 42 S LONG. 116 D 0 M 21 S

UTM 11 549500 E 7042800 N  
SEP 30, 1967 TO/À MAY 24, 1971SNARE RIVER AT OUTLET OF BIG SPRUCE  
LAKE, NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0001	23(0)	22(4)	23(0)	23(0)	23(0)	23(0)	23(0)	22(4)	ECHANTILLONS(IND.)
LOW		24.	Q10.	8.5	5.	.2	6.4	6.2	-3.7	MINIMUM
HIGH		83.	20.	18.6	15.	1.6	7.4	13.4	-2.1	MAXIMUM
AVERAGE		29.	12.*	10.9	8.	.7		7.9		MOYENNE
STD.DEV.		12.	2.*	2.6	3.	.4		1.3		ECART-TYPE
PERCNT:10TH		24.	Q11.	8.8	5.	.2	6.7	7.1	-3.3	10 <sup>e</sup> PERCNT
25TH		24.	11.	9.4	5.	.4	6.8	7.4	-3.3	25 <sup>e</sup>
MEDIAN 50TH		26.	12.	10.2	6.	.6	7.0	7.7	-3.1	50 <sup>e</sup> MEDIANE
75TH		28.	13.	11.6	10.	1.1	7.2	8.1	-2.9	75 <sup>e</sup>
90TH		34.	14.	14.4	10.	1.2	7.3	8.4	-2.7	90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0001	23(0)	23(0)	23(0)		23(0)	23(0)	23(0)	22(4)	ECHANTILLONS(IND.)
LOW		.3	.3	2.1		0.	8.	.4	L1.0	MINIMUM
HIGH		.8	1.5	5.5		0.	16.	1.3	3.7	MAXIMUM
AVERAGE		.6	.8	2.80		0.	10.	.6	1.9*	MOYENNE
STD.DEV.		.1	.2	.69		0.	2.	.2	.8*	ECART-TYPE
PERCNT:10TH		.5	.6	2.4		0.	9.	.4	L1.0	10 <sup>e</sup> PERCNT
25TH		.5	.7	2.4		0.	9.	.5	1.3	25 <sup>e</sup>
MEDIAN 50TH		.6	.7	2.6		0.	9.	.5	1.7	50 <sup>e</sup> MEDIANE
75TH		.6	.9	3.0		0.	10.	.6	2.2	75 <sup>e</sup>
90TH		.7	.9	3.4		0.	10.	.7	2.9	90 <sup>e</sup>
SECONDARY CODE				01L						CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0001		22(3)			2(1)	23(3)	2(0)	10(9)	ECHANTILLONS(IND.)
LOW			L.005			L.005	L.1	4.0	L.05	MINIMUM
HIGH			.226			.007	.6	19.0	L.10	MAXIMUM
AVERAGE			.058*			.006*	.40*	11.5	.08*	MOYENNE
STD.DEV.			.056*			.001*	.16*	10.6	.02*	ECART-TYPE
PERCNT:10TH			L.005				L.1		L.05	10 <sup>e</sup> PERCNT
25TH			.025				.3		.05	25 <sup>e</sup>
MEDIAN 50TH			.045			.006*	.4	11.5	L.10	50 <sup>e</sup> MEDIANE
75TH			.068				.5		L.10	75 <sup>e</sup>
90TH			.090				.6		L.10	90 <sup>e</sup>
SECONDARY CODE			05L			13L			04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB BASIN

STATION 00NW07SA0001 LAT. 63 D 30 M 42 S LONG. 116 D 0 M 21 S

UTM 11 549500 7042800  
APR 25 1968 TO/A APR 25 1971SNARE RIVER AT OUTLET OF BIG SPRUCE  
LAKE NORTHWEST TERRITORIES

	03301P LITHIUM EXTRBLE. LI MG/L	05103L BORON DISSOLVED B MG/L	13301P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24303P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25105P MANGANESE EXTRBLE. MN MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS) 0001						5(5)	2(2)		ECHANTILLONS(IND.)
LOW						L.010	L.01		MINIMUM
HIGH						L.01	L.01		MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH						L.010			25 <sup>e</sup>
MEDIAN 50TH						L.010	L.010		50 <sup>e</sup> MEDIANE
75TH						L.010			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE						01L	04L		CODE DE SECOURS

	26104L IRON DISSOLVED FE MG/L	26305P IRON EXTRBLE. FE MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS) 0001				4(3)	3(3)	4(3)	3(3)		ECHANTILLONS(IND.)
LOW	L.001			.001	L.01	L.01	L.01		MINIMUM
HIGH	.020			L.01	L.01	.017	L.01		MAXIMUM
AVERAGE	.004*			.008*		.012*			MOYENNE
STD.DEV.	.007*			.004*		.004*			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.001			.005*		L.010			25 <sup>e</sup>
MEDIAN 50TH	L.001			L.010	L.01	L.010	L.01		50 <sup>e</sup> MEDIANE
75TH	.005*			L.010		.013*			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L			06L	06L	04L	04L		CODE DE SECOURS

	38301P STRONTIUM EXTRBLE. SR MG/L	42302P MOLYBDENUM EXTRBLE. MO MG/L	48102L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBLE. CD MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBLE. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS) 0001					5(5)	2(2)			ECHANTILLONS(IND.)
LOW					L.001	L.01			MINIMUM
HIGH					L.05	L.01			MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					L.05				25 <sup>e</sup>
MEDIAN 50TH					L.05	L.010			50 <sup>e</sup> MEDIANE
75TH					L.05				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					01L	01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07SB0003** LAT. **62 D 29 M 11 S** LONG. **114 D 21 M 40 S**UTM **11 636000E 6930950 N**  
JUN 17, 1969 TO/A DEC 09, 1976BAKER CREEK NEAR DISCHARGE INTO  
YELLOWKNIFE BAY AT CULVERT NEAR GIANT

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	0018	39(0)	19(0)	27(0)	37(3)	37(0)	39(0)	39(0)	19(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0440	<b>112.</b>	<b>57.</b>	<b>8.8</b>	<b>L5.</b>	<b>1.2</b>	<b>6.9</b>	<b>33.7</b>	<b>-1.2</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>2325.</b>	<b>854.</b>	<b>528.</b>	<b>80.</b>	<b>110.</b>	<b>9.1</b>	<b>122.</b>	<b>1.8</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>659.</b>	<b>328.</b>	<b>191.9</b>	<b>23.*</b>	<b>20.7</b>		<b>62.4</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>527.</b>	<b>245.</b>	<b>140.3</b>	<b>16.*</b>	<b>25.7</b>		<b>23.8</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>187.</b>	<b>66.</b>	<b>50.8</b>	<b>5.</b>	<b>3.</b>	<b>7.3</b>	<b>39.</b>	<b>-1.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>295.</b>	<b>142.</b>	<b>88.9</b>	<b>10.</b>	<b>5.1</b>	<b>7.5</b>	<b>43.5</b>	<b>-.9</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>446.</b>	<b>206.</b>	<b>137.</b>	<b>20.</b>	<b>10.0</b>	<b>7.7</b>	<b>55.</b>	<b>-.4</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>863.</b>	<b>556.</b>	<b>254.</b>	<b>30.</b>	<b>25.</b>	<b>7.8</b>	<b>81.</b>	<b>.8</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>1442.</b>	<b>789.</b>	<b>427.</b>	<b>45.</b>	<b>52.</b>	<b>8.4</b>	<b>103.</b>	<b>.9</b>	<b>90<sup>e</sup></b>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	0440	28(0)	28(0)	36(0)	9(0)	22(0)	22(0)	30(0)	28(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0018	<b>.7</b>	<b>3.0</b>	<b>12.9</b>	<b>4.4</b>	<b>0.</b>	<b>45.</b>	<b>3.8</b>	<b>9.2</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>18.2</b>	<b>142.</b>	<b>252.</b>	<b>17.</b>	<b>2.</b>	<b>132.</b>	<b>402.</b>	<b>290.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>6.2</b>	<b>35.6</b>	<b>72.21</b>	<b>8.1</b>	<b>0.</b>	<b>69.</b>	<b>82.5</b>	<b>103.8</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>4.7</b>	<b>32.6</b>	<b>57.91</b>	<b>4.0</b>	<b>0.</b>	<b>24.</b>	<b>102.5</b>	<b>84.2</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>1.6</b>	<b>9.7</b>	<b>22.6</b>		<b>0.</b>	<b>49.</b>	<b>11.6</b>	<b>13.6</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>2.9</b>	<b>14.8</b>	<b>30.00</b>	<b>5.6</b>	<b>0.</b>	<b>51.</b>	<b>22.</b>	<b>45.0</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>4.2</b>	<b>23.8</b>	<b>44.15</b>	<b>6.5</b>	<b>0.</b>	<b>60.</b>	<b>40.0</b>	<b>61.8</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>8.4</b>	<b>48.0</b>	<b>110.50</b>	<b>9.0</b>	<b>0.</b>	<b>73.</b>	<b>89.</b>	<b>164.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>12.7</b>	<b>89.0</b>	<b>159.</b>		<b>0.</b>	<b>113.</b>	<b>220.0</b>	<b>252.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE				01L 02L	02P			06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	F MG/L	
<b>SAMPLES(FLAGS)</b>	0018	17(0)	24(0)			12(0)	22(0)	19(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0440	<b>.8</b>	<b>.06</b>			<b>.050</b>	<b>.3</b>	<b>9.</b>	<b>.08</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>12.2</b>	<b>5.4</b>			<b>.91</b>	<b>6.2</b>	<b>25.0</b>	<b>.10</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>3.7</b>	<b>1.208</b>			<b>.307</b>	<b>2.81</b>	<b>15.9</b>	<b>.09</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>3.2</b>	<b>1.546</b>			<b>.246</b>	<b>1.77</b>	<b>4.5</b>	<b>.01</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>1.0</b>	<b>.080</b>			<b>.077</b>	<b>1.0</b>	<b>11.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>1.5</b>	<b>.150</b>			<b>.110</b>	<b>1.4</b>	<b>13.</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>2.6</b>	<b>.585</b>			<b>.240</b>	<b>2.15</b>	<b>14.</b>	<b>.09</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>4.8</b>	<b>1.410</b>			<b>.430</b>	<b>4.2</b>	<b>19.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>8.9</b>	<b>3.8</b>			<b>.51</b>	<b>5.0</b>	<b>24.0</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			05L			13L	03L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

LAT 62 D 29 M 11 S LONG 114 D 21 M 40 S

UTM 11 636000 6930950 N  
APR 30 1972 TO/A DEC 09 1976BAKER CREEK NEAR DISCHARGE INTO  
YELLOWKNIFE BAY AT CULVERT NEAR GIANT

	03301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS)	0440	1(0)	1(0)		3(2)	6(2)	15(0)	13(3)	ECHANTILLONS(IND.)
LOW	0018	.13	.75		.013	L.01	.025	L.001	MINIMUM
HIGH		.13	.75		L.015	.088	1.83	L.06	MAXIMUM
AVERAGE					.0143*	.028*	.231	.010*	MOYENNE
STD.DEV.					.0012*	.030*	.456	.015*	ECART-TYPE
PERCNT:10TH							.037	.003	10 <sup>th</sup> PERCNT
25TH						L.01	.04	.004	25 <sup>th</sup>
MEDIAN 50TH					L.015	.015	.052	.005	50 <sup>th</sup> MEDIANE
75TH						.03	.20	.008	75 <sup>th</sup>
90TH							.44	.010	90 <sup>th</sup>
SECONDARY CODE		05L	02P		02P		04P 04L	01L 01P	CODE DE SECOURS

	26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0018	5(0)	34(0)	29(2)	6(0)	35(0)	35(1)	34(0)	ECHANTILLONS(IND.)
LOW	0440	.06	.07	.004	.002	L.001	L.01	.019	MINIMUM
HIGH		.120	12.	.34	9.90	5.4	1.90	12.6	MAXIMUM
AVERAGE		.086	1.193	.099*	5.101	1.202	.522*	2.373	MOYENNE
STD.DEV.		.027	2.120	.104*	4.546	1.313	.734*	2.721	ECART-TYPE
PERCNT:10TH			.26	.006		.035	.015	.136	10 <sup>th</sup> PERCNT
25TH		.07	.44	.02	.003	.22	.02	.030	25 <sup>th</sup>
MEDIAN 50TH		.07	.630	L.05	5.850	.78	.230	.071	50 <sup>th</sup> MEDIANE
75TH		.11	.99	.17	9.00	1.50	.75	.17	75 <sup>th</sup>
90TH			1.53	.27		3.4	.44	5.20	90 <sup>th</sup>
SECONDARY CODE	02L	04P 02P 04L*	01P 01L	06L	06P 06L	04L	04P 04L 05L	04L 01L	CODE DE SECOURS

	38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0018	6(6)		13(6)	6(5)	24(9)	12(3)	5(0)	ECHANTILLONS(IND.)
LOW	0440	L.10		L.001	L.001	L.001	L.1.	3.	MINIMUM
HIGH		L.10		L.03	L.05	.17	201.	190.	MAXIMUM
AVERAGE				.005*	.010*	.037*	37.*	52.	MOYENNE
STD.DEV.				.008*	.020*	.042*	57.*	79.	ECART-TYPE
PERCNT:10TH				L.001		.004	L.1.		10 <sup>th</sup> PERCNT
25TH		L.10		L.001	L.001	.005	2.*	6.	25 <sup>th</sup>
MEDIAN 50TH		L.1000		.002	L.001	.017	14.	20.	50 <sup>th</sup> MEDIANE
75TH		L.10		.004	.009	L.050	56.	41.	75 <sup>th</sup>
90TH				.010		.1	68.		90 <sup>th</sup>
SECONDARY CODE		01P		01L 01P	01L	02L 01L 01P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07SB0004** LAT. **62 D 27 M 0 S** LONG. **114 D 28 M 30 S**UTM **11 630300 E 6926700 N**  
DEC 13, 1968 TO/À SEP 04, 1972BAKER CREEK AT BRIDGE AT GIANT  
YELLOWKNIFE MINES STATION 8,

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0440	5(0)	5(0)	2(0)	5(0)	5(0)	5(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	0018	241.	136.	246.	10.	4.5	7.5	43.4	-1.0	MINIMUM
HIGH		1484.	763.	412.	30.	120.	8.2	91.5	.4	MAXIMUM
AVERAGE		622.	346.	329.0	16.	39.9		65.1		MOYENNE
STD.DEV.		530.	264.	117.4	9.	46.8		21.0		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		284.	141.		10.	12.0	7.7	45.8	-.6	25 <sup>e</sup>
MEDIAN 50TH		317.	251.	329.0	10.	22.0	7.8	65.0	.1	50 <sup>e</sup> MEDIANE
75TH		784.	442.		20.	41.0	8.0	80.0	.4	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0018	5(0)	5(0)	5(0)	3(0)	4(0)	4(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	0440	3.6	10.4	20.2	3.8	0.	53.	6.9	43.7	MINIMUM
HIGH		11.6	102.	142.	8.2	0.	98.	231.	208.	MAXIMUM
AVERAGE		8.8	39.0	60.44	6.2	0.	71.	71.8	116.1	MOYENNE
STD.DEV.		3.5	38.8	48.80	2.2	0.	21.	93.6	70.4	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		6.9	13.5	25.5		0.	54.	20.0	58.0	25 <sup>e</sup>
MEDIAN 50TH		10.7	18.2	54.5	6.7	0.	68.	20.0	104.	50 <sup>e</sup> MEDIANE
75TH		11.3	51.0	60.0		0.	88.	81.0	167.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01L						CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0440	1(0)	5(0)				5(0)	5(0)		ECHANTILLONS(IND.)
LOW	0018	.7	.054				1.1	10.5		MINIMUM
HIGH		.7	4.40				5.0	34.8		MAXIMUM
AVERAGE			1.517				2.64	20.3		MOYENNE
STD.DEV.			1.958				1.69	8.9		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.070				1.3	17.0		25 <sup>e</sup>
MEDIAN 50TH			.350				2.0	19.0		50 <sup>e</sup> MEDIANE
75TH			2.71				3.8	20.0		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			05L							CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960 1979

## GREAT SLAVE LAKE SUB BASIN

STATION 00NW07SB0004 LAT 62 D 27M 0 S LONG. 114 D 28M 30 S

UTM 11 630300E 6926700 N  
SEP 04 1972 TO/A SEP 04 1972BAKER CREEK AT BRIDGE AT GIANT  
YELLOWKNIFE MINES STATION 8

	03301P LITHIUM EXTRBLE. LI MG/L	05103L BORON DISSOLVED B MG/L	13303P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24303P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25305P MANGANESE EXTRBLE. MN MG/L	27302P COBALT EXTRBLE. CO MG/L	
SUBM ID									
SAMPLES(FLAGS) 0440						1(0)			ECHANTILLONS(IND.)
LOW						.08			MINIMUM
HIGH						.08			MAXIMUM
AVERAGE									MOYENNE
STD.DEV.									ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH									50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	26104L IRON DISSOLVED FE MG/L	26305P IRON EXTRBLE. FE MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SUBM ID									
SAMPLES(FLAGS) 0440	1(1)	4(0)		1(0)	4(0)	1(0)	4(0)	3(0)	ECHANTILLONS(IND.)
LOW 0018	L.05	.310		.73	.05	.057	.07	1.90	MINIMUM
HIGH	L.05	5.00		.73	4.20	.057	1.70	3.70	MAXIMUM
AVERAGE		2.492			1.987		.533	2.867	MOYENNE
STD.DEV.		2.312			1.706		.781	.907	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.535			.875		.100		25 <sup>e</sup>
MEDIAN 50TH		2.330			1.850		.180	3.00	50 <sup>e</sup> MEDIANE
75TH		4.450			3.100		.965		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		02L		06L	06L		05L 04L	01L	CODE DE SECOURS

	38301P STRONTIUM EXTRBLE. SR MG/L	42302P MOLYBDENUM EXTRBLE. MO MG/L	48102L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBLE. CD MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBLE. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SUBM ID									
SAMPLES(FLAGS) 0018					1(1)	3(0)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW 0440					L.001	.040	17.	11.	MINIMUM
HIGH					L.001	.10	17.	11.	MAXIMUM
AVERAGE						.073			MOYENNE
STD.DEV.						.031			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH						.080			50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE						01L 02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07SB0005** LAT. **62 D 25 M 0 S** LONG. **114 D 28 M 30 S**UTM **11 630000E 6923000 N**  
DEC 10, 1974 TO/À SEP 13, 1976INFLOW STREAM FLOWING INTO WEST END  
OF GRACE LAKE ABOUT 15 METRES FROM

	02041L SPECIFIC CONDUCT.	02020L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM							ECHANTILLONS(IND.)
LOW	0018	3(0)	3(0)	3(1)	3(0)	3(0)	3(0)		MINIMUM
HIGH		117.	54.	L5.	.2	6.6	39.		MAXIMUM
AVERAGE		167.	73.2	20.	3.5	8.0	54.4		MOYENNE
STD.DEV.		148.	61.4	12.*	2.4		46.1		ECART-TYPE
		27.	10.3	8.*	1.9		7.8		
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		161.	57.	10.	3.5	7.7	45.		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					73L				CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID								ECHANTILLONS(IND.)
LOW	0402		15(0)	18(0)	15(0)	1(0)	1(0)	14(0)	14(0)
HIGH	0018		3.4	9.98	3.6	0.	55.	5.4	8.8
AVERAGE			10.9	70.	12.4	0.	55.	28.3	48.1
STD.DEV.			6.4	22.98	6.5		12.9	24.9	MOYENNE
			2.0	13.37	1.9		6.3	10.5	ECART-TYPE
PERCNT:10TH			4.2	11.9	4.7		5.9	11.4	10 <sup>e</sup> PERCNT
25TH			5.0	16.0	5.2		9.6	19.7	25 <sup>e</sup>
MEDIAN 50TH			6.1	20.90	6.4		11.8	21.6	50 <sup>e</sup> MEDIANE
75TH			7.8	25.3	7.0		14.6	31.2	75 <sup>e</sup>
90TH			9.3	36.7	7.3		22.9	40.0	90 <sup>e</sup>
SECONDARY CODE		05L	01L				07L 02L	05L 06L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## GREAT SLAVE LAKE SUB-BASIN

STATION 00NW07SB0005 LAT. 62 D 25M 0 S LONG. 114 D 28M 30 S

UTM 11 630000 E 6923000 N  
JUN 13 1972 TO/A JUL 12 1972INFLOW STREAM FLOWING INTO WEST END  
OF GRACE LAKE ABOUT 15 METRES FROM

	03301P LITHIUM EXTRBLE.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24303P CHROMIUM EXTRBLE.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBLE.	27302P COBALT EXTRBLE.
SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L
SAMPLES(FLAGS) 0402						3(1)		ECHANTILLONS(IND.)
LOW						L.001		MINIMUM
HIGH						.022		MAXIMUM
AVERAGE						.011*		MOYENNE
STD.DEV.						.011*		ECART-TYPE
PERCNT:10TH								10 <sup>e</sup> PERCNT
25TH								25 <sup>e</sup>
MEDIAN 50TH						.011		50 <sup>e</sup> MEDIANE
75TH								75 <sup>e</sup>
90TH								90 <sup>e</sup>
SECONDARY CODE						05L		CODÉ DE SECOURS

	26104L IRON DISSOLVED	26305P IRON EXTRBLE.	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L
SAMPLES(FLAGS) 0402								ECHANTILLONS(IND.)
LOW 0018	.09	.13	.010	.004	.003	.004	.006	.004
HIGH	.17	.22	L.05	.007	.01	.022	.02	.087
AVERAGE	.115	.183	.037*	.005	.008*	.012	.012*	.039*
STD.DEV.	.038	.047	.023*	.001	.004*	.008	.007*	.023*
PERCNT:10TH								.014
25TH	.090			.004		.007		.024
MEDIAN 50TH	.100	.20	L.05	.005	L.01	.012	L.01	.034
75TH	.140			.006		.018		.06
90TH								.064
SECONDARY CODE		04P	01P	07L	06P	07L	04P	05L 04L
								CODÉ DE SECOURS

	38301P STRONTIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.
SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L
SAMPLES(FLAGS) 0018			4(4)		4(0)	1(1)	15(0)	ECHANTILLONS(IND.)
LOW 0402			L.001		.001	L.05	1.	MINIMUM
HIGH			L.001		.002	L.05	18.	MAXIMUM
AVERAGE					.001		5.	MOYENNE
STD.DEV.					.001		5.	ECART-TYPE
PERCNT:10TH							2.	10 <sup>e</sup> PERCNT
25TH			L.001		.001		3.	25 <sup>e</sup>
MEDIAN 50TH			L.001		.001		3.	50 <sup>e</sup> MEDIANE
75TH			L.001		.002		6.	75 <sup>e</sup>
90TH							16.	90 <sup>e</sup>
SECONDARY CODE			03L		04L	01P		CODÉ DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-1979  
GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07SB0006** LAT. **62 D 25M 30 S** LONG. **114 D 25M 0 S**

UTM **11 633000E 6924000 N**  
SEP 09, 1976 TO/A SEP 09, 1976

INFLOW STREAM TO KAM LAKE FROM GRACE  
LAKE ABOUT 5 METRES EAST OF THE ROAD

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b> 0018	<b>1(0)</b>		<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>223.</b>		<b>83.</b>	<b>5.</b>	<b>2.2</b>	<b>8.1</b>	<b>68.</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>223.</b>		<b>83.</b>	<b>5.</b>	<b>2.2</b>	<b>8.1</b>	<b>68.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>									<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE					73L				CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b> 0402	<b>1(0)</b>	<b>23(0)</b>	<b>23(0)</b>	<b>22(0)</b>			<b>17(0)</b>	<b>16(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0018	<b>1.0</b>	<b>4.2</b>	<b>12.6</b>	<b>3.8</b>			<b>6.5</b>	<b>14.2</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.0</b>	<b>446.</b>	<b>30.6</b>	<b>6.1</b>			<b>23.0</b>	<b>42.7</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>24.1</b>	<b>18.14</b>	<b>5.2</b>			<b>9.4</b>	<b>20.6</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>92.0</b>	<b>4.28</b>	<b>.6</b>			<b>4.8</b>	<b>6.3</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>4.3</b>	<b>14.9</b>	<b>4.5</b>			<b>6.8</b>	<b>15.9</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>4.4</b>	<b>15.7</b>	<b>4.8</b>			<b>7.0</b>	<b>17.9</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>4.4</b>	<b>16.8</b>	<b>5.0</b>			<b>7.6</b>	<b>19.4</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>4.8</b>	<b>18.0</b>	<b>5.8</b>			<b>8.6</b>	<b>20.8</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>6.7</b>	<b>24.9</b>	<b>6.0</b>			<b>20.7</b>	<b>23.2</b>	<b>90<sup>e</sup></b>
SECONDARY CODE		05L	01L				07L	05L	CODE DE SECOURS

MACKENZIE RIVER BASIN 1960-1979  
GREAT SLAVE LAKE SUB BASIN

STATION 00NW07SB0006 LAT. 62 D 25M 30 S LONG. 114 D 25M 0 S

UTM 11 633000E 6924000N  
JUN 22 1971 TO/A SEP 18 1972

INFLOW STREAM TO KAM LAKE FROM GRACE  
LAKE ABOUT 5 METRES EAST OF THE ROAD

	03301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.
SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L
SAMPLES(FLAGS)	0402					10(7)		ECHANTILLONS(IND.)
LOW						L.001		MINIMUM
HIGH						.090		MAXIMUM
AVERAGE						.012*		MOYENNE
STD.DEV.						.028*		ECART-TYPE
PERCNT:10TH						L.001		10 <sup>e</sup> PERCNT
25TH						L.001		25 <sup>e</sup>
MEDIAN 50TH						L.001		50 <sup>e</sup> MEDIANE
75TH						.010		75 <sup>e</sup>
90TH						.050		90 <sup>e</sup>
SECONDARY CODE						05L		CODE DE SECOURS

	26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED
SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L
SAMPLES(FLAGS)	0402	11(5)	1(0)	1(1)	8(0)	1(1)	5(0)	1(1)
LOW	0018	L.05	.05	L.05	.002	L.01	.001	L.01
HIGH		89.9	.05	L.05	.495	L.01	.004	L.01
AVERAGE		8.239*			.067		.002	.001
STD.DEV.		27.084*			.173		.001	.001
PERCNT:10TH		L.05						.004
25TH		L.05			.004		.002	.015
MEDIAN 50TH		.05			.006		.002	.030
75TH		.15			.008		.003	L.045
90TH		.15						.047
SECONDARY CODE			04P	01P	07L	06P	07L	04P

	38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.
SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L
SAMPLES(FLAGS)	0402		5(2)		6(3)	1(1)	19(1)	ECHANTILLONS(IND.)
LOW	0018		L.001		L.001	L.05	L.1	MINIMUM
HIGH			.002		.002	L.05	5.	MAXIMUM
AVERAGE			.001*		.001*		3.*	MOYENNE
STD.DEV.			.000*		.000*		1.*	ECART-TYPE
PERCNT:10TH							1.	10 <sup>e</sup> PERCNT
25TH			L.001		L.001		2.	25 <sup>e</sup>
MEDIAN 50TH			.001		.001*		3.	50 <sup>e</sup> MEDIANE
75TH			.001		.001		4.	75 <sup>e</sup>
90TH							5.	90 <sup>e</sup>
SECONDARY CODE			33L		04L	01P		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07SB0007** LAT. **62 D 24 M 0 S** LONG. **114 D 25 M 30 S**UTM **11 633000E 6921000 N**  
JUL 08, 1971 TO/A OCT 11, 1973OUTFLOW STREAM FROM KAM LAKE ABOUT 20  
YARDS DOWNSTREAM FROM KAM LAKE.

		02041F SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02075S TURBIDITY LIGHT PENETRM. SECCHI DSC M	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED P	14201L SILICON SOL. ORTHO SILICATE SI	08101F OXYGEN DISSOLVED DO O2	
	SUBM ID	USIE/CM	USIE/CM		PH UNITS	N MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>8(0)</b>	<b>3(0)</b>		<b>19(0)</b>	<b>18(0)</b>	<b>16(0)</b>	<b>17(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>1800.</b>	<b>150.</b>		<b>.2</b>	<b>.20</b>	<b>.012</b>	<b>1.41</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>2530.</b>	<b>2400.</b>		<b>8.8</b>	<b>1.53</b>	<b>.090</b>	<b>2.59</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>2345.</b>	<b>1457.</b>			<b>.61</b>	<b>.041</b>	<b>1.82</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>258.</b>	<b>1168.</b>			<b>.37</b>	<b>.023</b>	<b>.28</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					<b>7.1</b>	<b>.22</b>	<b>.012</b>	<b>1.49</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>2225.</b>			<b>7.7</b>	<b>.31</b>	<b>.025</b>	<b>1.59</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>2470.</b>	<b>1820.</b>		<b>7.9</b>	<b>.59</b>	<b>.035</b>	<b>1.81</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>2520.</b>			<b>8.4</b>	<b>.87</b>	<b>.060</b>	<b>1.86</b>		<b>75<sup>e</sup></b>
<b>90TH</b>					<b>8.8</b>	<b>1.00</b>	<b>.069</b>	<b>2.16</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19105L POTASSIUM DISSOLVED	11105L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06202F BICARBONT. LAB CALC.	17207L CHLORIDE DISSOLVED	16305L SULPHATE DISSOLVED	25105L MANGANESE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	HC03 MG/L	CL MG/L	SO4 MG/L	MN MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>18(0)</b>	<b>19(0)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>8(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>2.4</b>	<b>24.6</b>	<b>25.6</b>	<b>9.1</b>	<b>98.</b>	<b>493.</b>	<b>14.8</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>10.6</b>	<b>215.</b>	<b>318.</b>	<b>28.2</b>	<b>121.</b>	<b>1100.</b>	<b>374.</b>	<b>.110</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>9.3</b>	<b>179.8</b>	<b>243.37</b>	<b>20.9</b>	<b>104.</b>	<b>618.0</b>	<b>260.1</b>	<b>.054*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>1.8</b>	<b>41.4</b>	<b>60.71</b>	<b>4.8</b>	<b>6.</b>	<b>161.2</b>	<b>90.9</b>	<b>.045*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>8.9</b>	<b>160.</b>	<b>216.</b>	<b>10.5</b>	<b>98.</b>	<b>525.</b>	<b>179.</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>9.0</b>	<b>175.</b>	<b>220.</b>	<b>19.8</b>	<b>100.</b>	<b>540.</b>	<b>235.</b>	<b>.020</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>9.7</b>	<b>189.5</b>	<b>252.50</b>	<b>21.5</b>	<b>104.</b>	<b>554.</b>	<b>264.</b>	<b>.040</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>10.2</b>	<b>197.</b>	<b>267.</b>	<b>23.1</b>	<b>106.</b>	<b>604.</b>	<b>314.</b>	<b>.100</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>10.5</b>	<b>215.</b>	<b>291.</b>	<b>28.2</b>	<b>118.</b>	<b>735.</b>	<b>354.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		25305L MANGANESE EXTRBLE.	26104L IRON DISSOLVED	29107L COPPER DISSOLVED	30107L ZINC DISSOLVED	33105L ARSENIC DISSOLVED	48103L CADMIUM DISSOLVED	82104L LEAD DISSOLVED	10401L RESIDUE NONFILTR.	
	SUBM ID	MN MG/L	FE MG/L	CU MG/L	ZN MG/L	AS MG/L	CD MG/L	PB MG/L		
<b>SAMPLES(FLAGS)</b>	<b>0402</b>		<b>8(1)</b>	<b>7(0)</b>	<b>5(0)</b>	<b>15(0)</b>	<b>5(0)</b>	<b>6(0)</b>	<b>19(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>L.05</b>	<b>.018</b>	<b>.001</b>	<b>2.77</b>	<b>.001</b>	<b>.006</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>.14</b>	<b>.042</b>	<b>.003</b>	<b>5.15</b>	<b>.008</b>	<b>.037</b>	<b>23.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.088*</b>	<b>.033</b>	<b>.002</b>	<b>3.44</b>	<b>.005</b>	<b>.025</b>	<b>7.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.032*</b>	<b>.008</b>	<b>.001</b>	<b>.55</b>	<b>.003</b>	<b>.011</b>	<b>6.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>						<b>3.03</b>			<b>1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>.055</b>	<b>.029</b>	<b>.002</b>	<b>3.18</b>	<b>.003</b>	<b>.023</b>	<b>3.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>.090</b>	<b>.033</b>	<b>.002</b>	<b>3.24</b>	<b>.004</b>	<b>.027</b>	<b>4.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>.110</b>	<b>.039</b>	<b>.002</b>	<b>3.66</b>	<b>.007</b>	<b>.033</b>	<b>8.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>						<b>3.80</b>			<b>20.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

MACKENZIE RIVER BASIN 1960 1979  
GREAT SLAVE LAKE SUB BASIN

00NW07SB0008

62° 30' 36" N 114° 21' 48" W

ITEM 11 635800 6933500 N  
MAY 02 1973 TO/A MAY 28 1975

BAKER CREEK APPROX. 4000 FT. ABOVE  
MILL AT WATER SURVEY STATION

	02041L SPECIFIC CONDUCT.	00209L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS) 0018	17(0)	12(0)	17(0)	17(1)	17(0)	17(0)	17(0)	12(0)	ECHANTILLONS(IND.)
LOW	81.	53.	36.3	15.	.8	6.7	17.	-1.9	MINIMUM
HIGH	158.	77.	258.	80.	7.5	7.9	49.9	-.7	MAXIMUM
AVERAGE	119.	60.	64.4	23.*	2.1		37.4		MOYENNE
STD.DEV.	19.	8.	50.7	21.*	1.6		7.9		ECART-TYPE
PERCNT:10TH	104.	54.	45.	5.	1.0	6.8	27.6	-1.8	10 <sup>e</sup> PERCNT
25TH	108.	54.	47.6	10.	1.4	7.1	35.	-1.2	25 <sup>e</sup>
MEDIAN 50TH	115.	56.	50.	20.	1.5	7.6	37.	-1.0	50 <sup>e</sup> MEDIANE
75TH	126.	66.	63.	30.	2.1	7.7	40.1	-1.0	75 <sup>e</sup>
90TH	150.	70.	68.2	65.	4.0	7.8	49.	-.8	90 <sup>e</sup>
SECONDARY CODE					73L				CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS) 0018	14(0)	14(0)	17(0)	1(0)	12(0)	12(0)	13(0)	13(0)	ECHANTILLONS(IND.)
LOW	1.1	2.8	10.7	3.5	0.	21.	3.7	7.2	MINIMUM
HIGH	3.3	4.1	152.	3.5	0.	60.	7.3	20.9	MAXIMUM
AVERAGE	1.7	3.3	22.48		0.	46.	4.8	9.5	MOYENNE
STD.DEV.	.6	.4	33.47		0.	10.	1.1	3.6	ECART-TYPE
PERCNT:10TH	1.2	2.8	11.		0.	41.	3.9	7.4	10 <sup>e</sup> PERCNT
25TH	1.3	2.9	12.7		0.	43.	4.0	7.6	25 <sup>e</sup>
MEDIAN 50TH	1.5	3.2	14.		0.	45.	4.4	8.4	50 <sup>e</sup> MEDIANE
75TH	1.9	3.5	17.		0.	51.	5.2	9.2	75 <sup>e</sup>
90TH	2.5	3.9	19.3		0.	57.	6.7	12.	90 <sup>e</sup>
SECONDARY CODE			01L				06L	04L 06L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	F MG/L	
SAMPLES(FLAGS) 0018	12(0)	12(1)			11(0)	8(0)	7(0)	1(0)	ECHANTILLONS(IND.)
LOW	.4	L.01			.006	.3	12.	.19	MINIMUM
HIGH	5.7	.09			.061	2.1	24.	.19	MAXIMUM
AVERAGE	1.2	.038*			.027	.88	15.0		MOYENNE
STD.DEV.	1.4	.024*			.015	.59	4.1		ECART-TYPE
PERCNT:10TH	.7	.01			.013				10 <sup>e</sup> PERCNT
25TH	.8	.020			.019	.45	12.		25 <sup>e</sup>
MEDIAN 50TH	.9	.035			.022	.75	14.		50 <sup>e</sup> MEDIANE
75TH	1.0	.055			.034	1.10	15.		75 <sup>e</sup>
90TH	1.2	.06			.039				90 <sup>e</sup>
SECONDARY CODE					13L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION 00NW07SB0008 LAT. 62 D 30 M 36 S LONG. 114 D 21 M 48 S

UTM 11 635800E 6933500 N  
MAY 02, 1973 TO/A NOV 07, 1974BAKER CREEK, APPROX. 4000 FT. ABOVE  
MILL, AT WATER SURVEY STATION,

SUBM ID	03301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS) 0018			1(1)		3(3)	1(0)	13(0)	12(7)	ECHANTILLONS(IND.)
LOW			L.08		L.006	.27	.007	L.001	MINIMUM
HIGH			L.08		L.015	.27	.27	L.06	MAXIMUM
AVERAGE							.069	.009*	MOYENNE
STD.DEV.							.084	.017*	ECART-TYPE
PERCNT:10TH							.015	L.002	10 <sup>e</sup> PERCNT
25TH							.026	L.002	25 <sup>e</sup>
MEDIAN 50TH					L.015		.035	.004*	50 <sup>e</sup> MEDIANE
75TH							.046	.005	75 <sup>e</sup>
90TH							.23	L.02	90 <sup>e</sup>
SECONDARY CODE			02P		02P		04P	01P	CODE DE SECOURS

SUBM ID	26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS) 0018	1(0)	17(0)	17(6)	1(1)	17(9)	1(1)	17(8)	17(0)	ECHANTILLONS(IND.)
LOW	.41	.070	L.002	L.013	L.001	L.014	L.001	.018	MINIMUM
HIGH	.41	.56	L.08	L.013	.016	L.014	.022	.37	MAXIMUM
AVERAGE		.197	.012*		.006*		.008*	.096	MOYENNE
STD.DEV.		.142	.020*		.005*		.006*	.082	ECART-TYPE
PERCNT:10TH		.08	L.002		L.001		L.001	.028	10 <sup>e</sup> PERCNT
25TH		.12	.002		.001		.004	.044	25 <sup>e</sup>
MEDIAN 50TH		.14	.003		.004		L.008	.087	50 <sup>e</sup> MEDIANE
75TH		.19	.007		L.010		.010	.11	75 <sup>e</sup>
90TH		.50	L.04		L.015		.014	.153	90 <sup>e</sup>
SECONDARY CODE		04P	01P	06L	06P	04L	04P	04L	CODE DE SECOURS

SUBM ID	38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0018		5(5)		12(6)	1(1)	13(9)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW		L.10		L.001	L.05	L.004	2.	1.	MINIMUM
HIGH		L.10		L.03	L.05	L.05	20.	14.	MAXIMUM
AVERAGE				.004*		.015*	11.	8.	MOYENNE
STD.DEV.				.008*		.018*	13.	9.	ECART-TYPE
PERCNT:10TH				L.001		L.004			10 <sup>e</sup> PERCNT
25TH		L.10		.001*		.004			25 <sup>e</sup>
MEDIAN 50TH		L.10		.002*		L.006	11.	8.	50 <sup>e</sup> MEDIANE
75TH		L.10		.003		L.008			75 <sup>e</sup>
90TH				L.007		L.05			90 <sup>e</sup>
SECONDARY CODE		01P		01P	01L	01P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB BASIN

STATION 00NW07UC0001 LAT. 60 D 56 M 30 S LONG. 117 D 25 M 0 S

UTM 11 477000E 6756000 N  
AUG 06 1969 TO/A OCT 22 1976KAKISA RIVER AT OUTLET OF KAKISA LAKE  
NORTHWEST TERRITORIES

		12041L SPECIFIC CONDUCT.	10203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE CM								ECHANTILLONS(IND.)
LOW	0411	218.	119.	101.	5.	1.2	7.9	86.4	-.1	MINIMUM
HIGH	0018	373.	200.	179.	60.	36.	8.5	151.	.9	MAXIMUM
AVERAGE	0124	272.	149.	135.1	26.	7.4		106.6		MOYENNE
STD.DEV.	0056	46	22.	19.6	16.	8.0		15.4		ECART-TYPE
PERCNT:10TH	0440	225	125.	114.	10.	1.6	7.9	90.9	Q.0	10 <sup>e</sup> PERCNT
25TH		239	137.	120.0	10.	2.5	8.1	96.3	.2	25 <sup>e</sup>
MEDIAN 50TH		258.	142.	129.5	20.	3.6	8.1	101.0	.3	50 <sup>e</sup> MEDIANE
75TH		303	169.	153.5	35.	11.0	8.3	121.0	.5	75 <sup>e</sup>
90TH		328	180.	158.	50.	18.0	8.4	126.	.7	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73L		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001	L.1	3.2	28.		0.	105.	.2	7.7	MINIMUM
HIGH	0440	2.1	8.0	73.5		Q1.	184.	8.8	43.0	MAXIMUM
AVERAGE	0056	1.5	5.0	42.53		0.	130.	2.4	30.2	MOYENNE
STD.DEV.	0411	3	.9	8.65		0.	21.	1.3	7.7	ECART-TYPE
PERCNT:10TH	0018	1.2	4.0	34.4		0.	111.	1.8	21.8	10 <sup>e</sup> PERCNT
25TH		1.3	4.7	36.95		0.	118.	1.9	26.	25 <sup>e</sup>
MEDIAN 50TH		1.5	4.8	40.05		0.	123.	2.3	30.9	50 <sup>e</sup> MEDIANE
75TH		1.6	5.5	47.00		0.	147.	2.5	35.0	75 <sup>e</sup>
90TH		1.7	6.0	52.5		0.	161.	2.8	39.0	90 <sup>e</sup>
SECONDARY CODE				01F 01L				06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0411	.3	L.001	L.003	L.003	.007	2.3	L.5	L.05	MINIMUM
HIGH	0018	1.5	2.50	L.003	L.003	.077	5.9	22.0	.14	MAXIMUM
AVERAGE	0124	.6	.110			.026	4.30	11.8	.09	MOYENNE
STD.DEV.	0056	.3	.440			.017	.91	4.5	.02	ECART-TYPE
PERCNT 10TH	0440	.4	L.001			.008	3.0	5.	.07	10 <sup>e</sup> PERCNT
25TH		L.5	L.005			.010	3.8	10.0	.08	25 <sup>e</sup>
MEDIAN 50TH		.5	.015	L.003	L.003	.022	4.5	12.	.09	50 <sup>e</sup> MEDIANE
75TH		.7	.040			.038	5.0	14.0	.10	75 <sup>e</sup>
90TH		1.0	.080			.045	5.4	17.0	.11	90 <sup>e</sup>
SECONDARY CODE		02L	05L 06F 08F			13L 13F		06L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979  
GREAT SLAVE LAKE SUB-BASIN

STATION **00NW07UC0001** LAT. **60 D 56 M 30 S** LONG. **117 D 25 M 0 S**

UTM **11 477000E 6756000 N**  
AUG 06, 1969 TO/A OCT 22, 1976

KAKISA RIVER AT OUTLET OF KAKISA LAKE,  
NORTHWEST TERRITORIES

		03301P LITHIUM EXTRBLE.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBLE.	23302P VANADIUM EXTRBLE.	24303P CHROMIUM EXTRBLE.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
<b>SAMPLES(FLAGS)</b>	0018	20(6)	19(1)	1(1)	20(20)	20(19)	10(9)	23(1)	23(15)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0124	<b>L.005</b>	<b>L.02</b>	<b>L.1</b>	<b>L.05</b>	<b>L.010</b>	<b>L.01</b>	<b>.001</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>	0001	<b>.008</b>	<b>.10</b>	<b>L.1</b>	<b>L.13</b>	<b>L.015</b>	<b>.03</b>	<b>.07</b>	<b>.004</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	0411	<b>.006*</b>	<b>.06*</b>			<b>.0111*</b>	<b>.012*</b>	<b>.029*</b>	<b>.002*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	0440	<b>.001*</b>	<b>.02*</b>			<b>.0021*</b>	<b>.006*</b>	<b>.019*</b>	<b>.001*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	0056	<b>L.005</b>	<b>.04</b>		<b>L.0500</b>	<b>L.0100</b>	<b>L.010</b>	<b>.01</b>	<b>L.001</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.005</b>	<b>.05</b>		<b>L.0500</b>	<b>L.0100</b>	<b>L.01</b>	<b>.02</b>	<b>L.001</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.006</b>	<b>.06</b>		<b>L.0500</b>	<b>L.0100</b>	<b>L.010</b>	<b>.025</b>	<b>L.001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.006</b>	<b>.08</b>		<b>L.0500</b>	<b>.0115*</b>	<b>L.010</b>	<b>.040</b>	<b>.003</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.007</b>	<b>.08</b>		<b>L.0500</b>	<b>L.0150</b>	<b>.020*</b>	<b>.067</b>	<b>.003</b>	<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>			05L	02P	01P	02P	01L	04P		<b>CODE DE SECOURS</b>

		26104L IRON DISSOLVED	26305P IRON EXTRBLE.	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
<b>SAMPLES(FLAGS)</b>	0124	10(2)	23(4)	23(7)	9(0)	24(2)	9(1)	24(7)	14(12)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	<b>L.001</b>	<b>L.05</b>	<b>L.001</b>	<b>.001</b>	<b>L.001</b>	<b>.001</b>	<b>L.001</b>	<b>L.000</b>	<b>MINIMUM</b>
<b>HIGH</b>	0440	<b>.050</b>	<b>.93</b>	<b>.012</b>	<b>.007</b>	<b>L.01</b>	<b>L.01</b>	<b>.12</b>	<b>.010</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	0056	<b>.013*</b>	<b>.286*</b>	<b>.005*</b>	<b>.003</b>	<b>.003*</b>	<b>.003*</b>	<b>.009*</b>	<b>.004*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	0411	<b>.014*</b>	<b>.229*</b>	<b>.003*</b>	<b>.002</b>	<b>.002*</b>	<b>.003*</b>	<b>.024*</b>	<b>.003*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	0018	<b>L.001</b>	<b>L.05</b>	<b>L.001</b>		<b>.001</b>		<b>L.001</b>	<b>L.000</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.010</b>	<b>.11</b>	<b>.003</b>	<b>.002</b>	<b>.002</b>	<b>.001</b>	<b>.001</b>	<b>L.000</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.010</b>	<b>.23</b>	<b>L.005</b>	<b>.002</b>	<b>.002</b>	<b>.001</b>	<b>.003</b>	<b>L.005</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.010</b>	<b>.44</b>	<b>.006</b>	<b>.003</b>	<b>.004</b>	<b>.005</b>	<b>.008</b>	<b>L.005</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.035</b>	<b>.60</b>	<b>.009</b>		<b>.004</b>		<b>L.01</b>	<b>L.005</b>	<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		02L	04P			06L	04L	04L 04P	04L	<b>CODE DE SECOURS</b>

		38301P STRONTIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0018	20(1)	20(20)	1(1)	23(19)	9(7)	23(19)	13(1)	11(3)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0124	<b>L.02</b>	<b>L.05</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.1</b>	<b>L.1</b>	<b>MINIMUM</b>
<b>HIGH</b>	0001	<b>.15</b>	<b>L.10</b>	<b>L.001</b>	<b>.003</b>	<b>.005</b>	<b>.013</b>	<b>55.</b>	<b>45.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	0411	<b>.09*</b>			<b>.001*</b>	<b>.002*</b>	<b>.003*</b>	<b>16.*</b>	<b>9.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	0056	<b>.03*</b>			<b>.000*</b>	<b>.001*</b>	<b>.003*</b>	<b>16.*</b>	<b>13.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	0440	<b>.06</b>	<b>L.0500</b>		<b>L.001</b>		<b>L.001</b>	<b>3.</b>	<b>L.1</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.07</b>	<b>L.0500</b>		<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>4.</b>	<b>L.1</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.08</b>	<b>L.0500</b>		<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>10.</b>	<b>5.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.10</b>	<b>L.0600</b>		<b>L.001</b>	<b>L.001</b>	<b>.004</b>	<b>21.</b>	<b>9.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.13</b>	<b>L.1000</b>		<b>.002</b>		<b>L.005</b>	<b>42.</b>	<b>20.</b>	<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>			01P 01L	01L			01L			<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## GREAT SLAVE LAKE SUB BASIN

STATION 01NW07SB0001 LAT 62° 26' 30" LONG 114° 21' 0"

STATION 11 636800 6926000  
SEP 28 1967 TO/A MAY 02 1974GREAT SLAVE LAKE AT YELLOWKNIFE,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0001	39(0)	36(0)	39(0)	39(4)	39(0)	39(0)	38(0)	36(0)	ECHANTILLONS(IND.)
LOW		45.	18.	15.0	L5.	.7	6.9	11.0	-2.5	MINIMUM
HIGH		200.	106.	90.0	30.	9.0	8.2	69.0	.0	MAXIMUM
AVERAGE		116.	59.	46.5	9.*	2.5		37.0		MOYENNE
STD.DEV.		52.	28.	23.1	6.*	2.2		18.3		ECART-TYPE
PERCNT:10TH		51.	28.	21.3	L5.	.8	7.1	18.0	-2.4	10 <sup>e</sup> PERCNT
25TH		72.	33.	26.0	5.	1.0	7.3	21.6	-1.9	25 <sup>e</sup>
MEDIAN 50TH		107.	52.	35.8	8.	1.8	7.6	29.4	-1.2	50 <sup>e</sup> MEDIANE
75TH		170.	82.	67.3	10.	2.7	7.8	50.0	-6	75 <sup>e</sup>
90TH		195.	102.	81.9	20.	7.7	8.0	65.7	-4	90 <sup>e</sup>
SECONDARY CODE						73L 71L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0001	37(0)	39(0)	38(0)		36(0)	36(0)	38(0)	38(0)	ECHANTILLONS(IND.)
LOW		.6	1.3	4.8		0.	13.	.5	2.5	MINIMUM
HIGH		1.8	7.4	26.4		0.	84.	7.0	20.8	MAXIMUM
AVERAGE		1.1	3.8	13.96		0.	44.	4.0	10.2	MOYENNE
STD.DEV.		.3	1.8	7.05		0.	22.	1.8	5.6	ECART-TYPE
PERCNT:10TH		.8	1.9	6.20		0.	22.	1.8	3.2	10 <sup>e</sup> PERCNT
25TH		.9	2.1	7.9		0.	26.	2.6	5.5	25 <sup>e</sup>
MEDIAN 50TH		1.1	3.3	12.55		0.	35.	3.8	9.4	50 <sup>e</sup> MEDIANE
75TH		1.2	5.2	20.1		0.	61.	5.3	14.6	75 <sup>e</sup>
90TH		1.5	6.6	24.9		0.	80.	6.5	19.0	90 <sup>e</sup>
SECONDARY CODE				01L				06L 02L	04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0001		37(3)			3(0)	39(1)	30(0)	36(3)	ECHANTILLONS(IND.)
LOW			L.001			.018	L.1	2.0	L.05	MINIMUM
HIGH			1.90			.052	3.1	10.0	.20	MAXIMUM
AVERAGE			.233*			.031	1.43*	6.6	.08*	MOYENNE
STD.DEV.			.444*			.018	.76*	1.5	.03*	ECART-TYPE
PERCNT:10TH			.010				.6	5.0	.05	10 <sup>e</sup> PERCNT
25TH			.040				.9	6.0	.06	25 <sup>e</sup>
MEDIAN 50TH			.100			.023	1.3	6.0	.07	50 <sup>e</sup> MEDIANE
75TH			.140				2.0	7.0	.08	75 <sup>e</sup>
90TH			.670				2.6	8.5	.11	90 <sup>e</sup>
SECONDARY CODE			05L			13L			04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION 01NW07SB0001 LAT. 62 D 26M 30 S LONG. 114 D 21M 0 S

UTM 11 636800E 6926000 N  
SEP 28, 1967 TO/A MAY 02, 1974GREAT SLAVE LAKE AT YELLOWKNIFE,  
NORTHWEST TERRITORIES

	03301P LITHIUM EXTRBLE. LI MG/L	05103L BORON DISSOLVED B MG/L	13303P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24303P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25305P MANGANESE EXTRBLE. MN MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS) 0001						30(28)	3(3)		ECHANTILLONS(IND.)
LOW						L.001	L.01		MINIMUM
HIGH						.15	L.01		MAXIMUM
AVERAGE						.014*			MOYENNE
STD.DEV.						.026*			ECART-TYPE
PERCNT:10TH						L.010			10 <sup>e</sup> PERCNT
25TH						L.01			25 <sup>e</sup>
MEDIAN 50TH						L.010	L.01		50 <sup>e</sup> MEDIANE
75TH						L.01			75 <sup>e</sup>
90TH						L.010			90 <sup>e</sup>
SECONDARY CODE						01L 05L	04L 04P		CODE DE SECOURS

	26104L IRON DISSOLVED FE MG/L	26305P IRON EXTRBLE. FE MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS) 0001	33(20)	1(1)		32(1)	3(1)	33(5)	3(1)	21(6)	ECHANTILLONS(IND.)
LOW	L.001	L.05		.002	.003	L.001	.002	.001	MINIMUM
HIGH	L.05	L.05		.050	L.01	.029	L.01	.030	MAXIMUM
AVERAGE	.025*			.007*	.006*	.008*	.005*	.010*	MOYENNE
STD.DEV.	.021*			.009*	.004*	.006*	.005*	.008*	ECART-TYPE
PERCNT:10TH	L.001			.003		.001		L.005	10 <sup>e</sup> PERCNT
25TH	.010			.004		.002		L.005	25 <sup>e</sup>
MEDIAN 50TH	.020			.005	.006	.006	.002	.007	50 <sup>e</sup> MEDIANE
75TH	L.05			.009		.01		.013	75 <sup>e</sup>
90TH	L.05			.010		.017		.015	90 <sup>e</sup>
SECONDARY CODE	02L	04P		06L	05L 06L	04L	05L 04L	04L	CODE DE SECOURS

	38301P STRONTIUM EXTRBLE. SR MG/L	42302P MOLYBDENUM EXTRBLE. MO MG/L	48102L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBLE. CD MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBLE. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS) 0001					33(25)	3(3)	5(1)	4(2)	ECHANTILLONS(IND.)
LOW					L.001	L.001	L.1	L.1	MINIMUM
HIGH					L.05	L.01	10.	7.	MAXIMUM
AVERAGE					.006*		5.*	4.*	MOYENNE
STD.DEV.					.012*		5.*	3.*	ECART-TYPE
PERCNT:10TH					L.001			L.1	10 <sup>e</sup> PERCNT
25TH					L.001		1.	L.1	25 <sup>e</sup>
MEDIAN 50TH					L.001	L.001	3.	4.*	50 <sup>e</sup> MEDIANE
75TH					.006		10.	7.	75 <sup>e</sup>
90TH					L.01				90 <sup>e</sup>
SECONDARY CODE					01L 02L	01L 02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## GREAT SLAVE LAKE SUB BASIN

STATION 01NW07SB0003 LAT 62 D 29M 15 S LONG. 114 D 21M 38 S

UTM 11 636000E 6931050 N  
DEC 16 1968 TO/A DEC 09 1976YELLOWKNIFE BAY GREAT SLAVE LAKE AT  
FRESHWATER INTAKE FOR MILL

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0018	32(0)	20(0)	24(0)	32(6)	32(0)	32(0)	32(0)	20(0)	ECHANTILLONS(IND.)
LOW	0440	20.	18.	15.6	L0.	.3	6.8	11.5	-2.7	MINIMUM
HIGH		3351.	1699.	874.	20.	40.0	8.6	93.8	1.1	MAXIMUM
AVERAGE		187.	131.	78.5	8.*	5.0		23.8		MOYENNE
STD.DEV.		584.	372.	183.4	6.*	8.8		15.4		ECART-TYPE
PERCNT:10TH		39.	22.	17.7	L5.	.8	7.0	12.6	-2.5	10 <sup>e</sup> PERCNT
25TH		47.	26.	19.5	5.	1.5	7.0	15.0	-2.2	25 <sup>e</sup>
MEDIAN 50TH		63.	38.	26.9	5.	2.4	7.2	19.5	-1.8	50 <sup>e</sup> MEDIANE
75TH		100.	52.	39.5	10.	4.5	7.5	27.8	-1.3	75 <sup>e</sup>
90TH		140.	158.	68.	20.	7.5	7.9	32.6	-.4	90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0018	24(0)	24(0)	32(0)	7(0)	18(0)	18(0)	24(0)	22(0)	ECHANTILLONS(IND.)
LOW	0440	.2	1.0	1.93	1.1	0.	15.	.9	2.4	MINIMUM
HIGH		14.1	264.	282.	7.2	0.	114.	706.	335.	MAXIMUM
AVERAGE		1.5	15.0	17.49	3.4	0.	33.	36.3	24.0	MOYENNE
STD.DEV.		2.7	53.5	48.74	2.5	0.	23.	143.7	70.1	ECART-TYPE
PERCNT:10TH		.6	1.6	4.1		0.	15.	1.4	3.2	10 <sup>e</sup> PERCNT
25TH		.8	1.8	5.10	1.5	0.	18.	2.0	3.9	25 <sup>e</sup>
MEDIAN 50TH		.9	2.7	7.20	2.4	0.	29.	3.4	5.8	50 <sup>e</sup> MEDIANE
75TH		1.0	3.5	12.30	6.8	0.	37.	5.3	11.0	75 <sup>e</sup>
90TH		1.8	6.5	15.2		0.	59.	8.8	23.0	90 <sup>e</sup>
SECONDARY CODE				01L				06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	C MG/L	MG/L	
SAMPLES(FLAGS)	0018	13(0)	21(3)			11(0)	18(1)	14(0)	1(1)	ECHANTILLONS(IND.)
LOW	0440	.1	L.005			.004	L.1	3.1	L.05	MINIMUM
HIGH		11.1	13.4			.034	7.0	11.0	L.05	MAXIMUM
AVERAGE		1.3	.851*			.020	1.04*	6.3		MOYENNE
STD.DEV.		2.9	2.940*			.011	1.53*	2.5		ECART-TYPE
PERCNT:10TH		.3	L.005			.004	.3	4.		10 <sup>e</sup> PERCNT
25TH		.4	.014			.009	.5	5.		25 <sup>e</sup>
MEDIAN 50TH		.5	.06			.021	.60	5.3		50 <sup>e</sup> MEDIANE
75TH		.6	.090			.033	1.0	8.		75 <sup>e</sup>
90TH		1.4	.770			.034	1.5	10.4		90 <sup>e</sup>
SECONDARY CODE			05L			13L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-1979  
GREAT SLAVE LAKE SUB-BASIN

STATION **01NW07SB0003** LAT. **62 D 29 M 15 S** LONG. **114 D 21 M 38 S**

UTM **11 636000E 6931050 N**  
MAY 30, 1972 TO/A DEC 09, 1976

YELLOWKNIFE BAY, GREAT SLAVE LAKE AT  
FRESHWATER INTAKE FOR MILL,

	03301P LITHIUM EXTRBLE. SUBM ID	05103L BORON DISSOLVED B MG/L	13303P ALUMINUM EXTRBLE. AL MG/L	23302P VANADIUM EXTRBLE. V MG/L	24303P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25305P MANGANESE EXTRBLE. MN MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS)	0018				2(2)	1(0)	13(9)	11(6)	ECHANTILLONS(IND.)
LOW	0440				L.015	.14	.004	L.001	MINIMUM
HIGH					L.015	.14	.014	L.06	MAXIMUM
AVERAGE							.010*	.009*	MOYENNE
STD.DEV.							.003*	.017*	ECART-TYPE
PERCNT:10TH							L.008	L.002	10 <sup>e</sup> PERCNT
25TH								L.002	25 <sup>e</sup>
MEDIAN 50TH					L.0150		L.01	.003	50 <sup>e</sup> MEDIANE
75TH							.011	.006	75 <sup>e</sup>
90TH							L.014	L.01	90 <sup>e</sup>
SECONDARY CODE					02P		04P	01P	CODE DE SECOURS

		26104L IRON DISSOLVED	26305P IRON EXTRBLE.	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED		
		SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0018	1(0)	30(6)	22(7)	1(0)	31(6)	1(0)	31(7)	28(4)	ECHANTILLONS(IND.)	
	LOW	0440	.030	L.03	L.001	.60	.001	.006	L.001	.001	MINIMUM
	HIGH		.030	5.10	L.05	.60	.50	.006	.53	3.05	MAXIMUM
	AVERAGE			.313*	.014*		.043*		.032*	.253*	MOYENNE
	STD.DEV.			.926*	.017*		.089*		.094*	.621*	ECART-TYPE
PERCNT:10TH			.040*	.003		.005		.003	.003	10 <sup>e</sup>	PERCNT
25TH			.05	.004		.009		.006	L.010	25 <sup>e</sup>	
MEDIAN 50TH			.075	.007		.017		L.01	.036	50 <sup>e</sup>	MEDIANE
75TH			.140	L.01		.04		.016	.104	75 <sup>e</sup>	
90TH			.665	L.05		.09		.05	1.05	90 <sup>e</sup>	
SECONDARY CODE		02L	04P 04L 02L	01P	06L	06P 04P 06L		04P 04L 05L	04L 01L	CODE DE SECOURS	

	38301P STRONTIUM EXTRBLE. SR MG/L	42302P MOLYBDENUM EXTRBLE. MO MG/L	48102L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBLE. CD MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBLE. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS)	0440	5(5)		12(7)	1(1)	21(13)	2(1)	2(1)	ECHANTILLONS(IND.)
LOW	0018	L.10		L.001	L.001	L.004	L.1.	L.1.	MINIMUM
HIGH		L.10		L.03	L.001	L.05	64.	53.	MAXIMUM
AVERAGE				.004*		.017*	32.*	27.*	MOYENNE
STD.DEV.				.008*		.018*	45.*	37.*	ECART-TYPE
PERCNT:10TH				L.001		L.004			10 <sup>e</sup> PERCNT
25TH		L.10		L.001		.005			25 <sup>e</sup>
MEDIAN 50TH		L.10		.001*		L.008	32.*	27.*	50 <sup>e</sup> MEDIANE
75TH		L.10		.002		.030			75 <sup>e</sup>
90TH				L.01		L.05			90 <sup>e</sup>
SECONDARY CODE		01P		01P		02L 01L 01P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## GREAT SLAVE LAKE SUB-BASIN

STATION 01NW07SB0005 LAT. 62 D 25M 30 S LONG. 114 D 24M 0 S

UTM 11 634000E 6924000N

AUG 09, 1972 TO/A SEP 14, 1972

KAM LAKE ABOUT 1.2 KILOMETRES SOUTH  
OF SEWER INFLOW AND 0.35 KILOMETRE

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0440	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW	2564.	1322.	728.	20.	2.0	7.4	76.7	.2	MINIMUM
HIGH	2575.	1386.	728.	80.	2.3	7.5	79.8	.4	MAXIMUM
AVERAGE	2570.	1354.	728.0	50.	2.2		78.2		MOYENNE
STD.DEV.	8.	45.	.0	42.	.2		2.2		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	2570.	1354.	728.0	50.	2.2	7.5	78.2	.3	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONTE. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0402	2(0)	205(0)	205(0)	203(0)	2(0)	2(0)	182(0)	182(0)	ECHANTILLONS(IND.)
LOW	0440	7.6	137.	2.81	10.9	0.	93.	430.	19.8	MINIMUM
HIGH		8.1	279.	387.	30.6	0.	97.	944.	537.	MAXIMUM
AVERAGE		7.8	202.3	253.22	24.1	0.	95.	604.2	293.1	MOYENNE
STD.DEV.		.4	21.2	56.02	3.4	0.	3.	93.5	88.2	ECART-TYPE
PERCNT:10TH			178.	223.	20.2			504.	199.	10 <sup>e</sup> PERCNT
25TH			191.	240.	21.4			529.	258.	25 <sup>e</sup>
MEDIAN 50TH		7.8	197.	255.	24.5	0.	95.	589.0	310.0	50 <sup>e</sup> MEDIANE
75TH			216.	282.	26.7			660.	339.	75 <sup>e</sup>
90TH			225.	300.	28.2			724.	381.	90 <sup>e</sup>
SECONDARY CODE			05L	01L				07L	05L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	C MG/L	F MG/L	
SAMPLES(FLAGS)	0440	2(0)	2(0)			2(0)	2(0)		ECHANTILLONS(IND.)
LOW	1.2	.230				4.0	13.0		MINIMUM
HIGH	1.4	.280				4.3	16.0		MAXIMUM
AVERAGE	1.3	.255				4.15	14.5		MOYENNE
STD.DEV.	.1	.035				.21	2.1		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	1.3	.255				4.15	14.5		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION **01NW07SB0005** LAT. **62 D 25 M 30 S** LONG. **114 D 24 M 0 S**UTM **11 634000E 6924000 N**  
JUN 22, 1971 TO/À MAR 01, 1973KAM LAKE ABOUT 1.2 KILOMETRES SOUTH  
OF SEWER INFLOW AND 0.35 KILOMETRE

	03301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L
<b>SAMPLES(FLAGS)</b>	0402					107(15)			<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0440					L.001			<b>MINIMUM</b>
<b>HIGH</b>						1.65			<b>MAXIMUM</b>
<b>AVERAGE</b>						.128*			<b>MOYENNE</b>
<b>STD.DEV.</b>						.255*			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>						L.001			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						.010			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>						.040			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						.110			<b>75<sup>e</sup></b>
<b>90TH</b>						.250			<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>						07L 05L			<b>CODE DE SECOURS</b>

	26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
	SUBM ID	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
<b>SAMPLES(FLAGS)</b>	0440	99(53)		56(0)		40(3)		193(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0402	L.05		.016		L.001		.004	<b>MINIMUM</b>
<b>HIGH</b>		30.0		.061		.009		5.99	<b>MAXIMUM</b>
<b>AVERAGE</b>		.893*		.035		.003*		3.598	<b>MOYENNE</b>
<b>STD.DEV.</b>		4.706*		.009		.002*		.901	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		L.05		.025		.002		3.03	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.05		.029		.002		3.21	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.05		.036		.003		3.60	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.08		.040		.004		4.13	<b>75<sup>e</sup></b>
<b>90TH</b>		.12		.044		.005		4.41	<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>				07L		07L		05L	<b>CODE DE SECOURS</b>

	38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L
<b>SAMPLES(FLAGS)</b>	0402			40(0)		47(2)		213(10)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0440			.001		L.001		L1.	<b>MINIMUM</b>
<b>HIGH</b>				.011		.047		60.	<b>MAXIMUM</b>
<b>AVERAGE</b>				.004		.027*		4.*	<b>MOYENNE</b>
<b>STD.DEV.</b>				.002		.014*		5.*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				.002		.001		2.	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				.003		.022		2.	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				.004		.033		3.	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				.006		.036		4.	<b>75<sup>e</sup></b>
<b>90TH</b>				.007		.039		5.	<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>				03L		04L		04L	<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## GREAT SLAVE LAKE SUB BASIN

STATION 01NW07SB0006 LAT. 62 D 25M 0 S LONG. 114 D 26M 30 S

UTM 11 632000E 6923000 N

SEP 10 1974 TO/A AUG 16 1976

GRACE LAKE ABOUT 1.2 KILOMETRES  
SOUTHWEST OF OUTLET TO KAM LAKE

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073F TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00213L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0018	5(0)	2(0)	5(0)	5(2)	5(0)	5(0)	5(0)		ECHANTILLONS(IND.)
LOW		53.	42.	21.	L5.	.3	7.2	19.		MINIMUM
HIGH		117.	57.	48.	10.	12.	7.8	38.		MAXIMUM
AVERAGE		83.	49.	33.7	6.*	4.9		29.1		MOYENNE
STD.DEV.		25.	11.	11.8	2.*	4.3		7.3		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		68.		23.	L5.	3.7	7.5	26.7		25 <sup>e</sup>
MEDIAN 50TH		82.	49.	34.	5.	4.1	7.8	28.		50 <sup>e</sup> MEDIANE
75TH		94.		42.3	5.	4.3	7.8	34.		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0402	5(0)	193(0)	193(0)	188(0)	3(0)	3(0)	174(0)	171(0)	ECHANTILLONS(IND.)
LOW	0018	.9	.9	6.	3.5	0.	23.	2.2	5.8	MINIMUM
HIGH		1.1	6.9	19.9	7.7	0.	46.	19.2	34.2	MAXIMUM
AVERAGE		1.0	4.5	16.39	5.3	0.	35.	8.3	19.7	MOYENNE
STD.DEV.		.1	.5	1.80	.6	0.	12.	1.9	3.1	ECART-TYPE
PERCNT:10TH			4.2	14.6	4.5			7.1	16.0	10 <sup>e</sup> PERCNT
25TH		.9	4.4	15.9	4.8			7.6	18.5	25 <sup>e</sup>
MEDIAN 50TH		.9	4.5	16.5	5.5	0.	34.	8.2	19.9	50 <sup>e</sup> MEDIANE
75TH		1.0	4.7	17.3	5.7			8.9	21.0	75 <sup>e</sup>
90TH			4.9	18.1	6.1			9.8	22.5	90 <sup>e</sup>
SECONDARY CODE			05L	01L				07L 06L	05L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07106L NITROGEN DISSOLVED NO3 & NO2	15256L PHOSPHORUS DISSOLVED ORTHO PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	09105L FLUORIDE DISSOLVED	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	F MG/L	
SAMPLES(FLAGS)	0018	2(0)	2(0)			2(0)	1(0)	2(0)		ECHANTILLONS(IND.)
LOW		.3	.03			.008	.6	5.		MINIMUM
HIGH		.6	.04			.019	.6	7.		MAXIMUM
AVERAGE		.5	.035			.014		6.0		MOYENNE
STD.DEV.		.2	.007			.008		1.4		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		.5	.035			.014		6.0		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						13L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION **01NW07SB0006** LAT. **62 D 25M 0 S** LONG. **114 D 26M 30 S**UTM **11 632000E 6923000 N**  
MAR 18, 1972 TO/A AUG 16, 1976GRACE LAKE ABOUT 1.2 KILOMETRES  
SOUTHWEST OF OUTLET TO KAM LAKE.

		03301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS)	0402					1(1)	84(69)	3(3)	2(1)	ECHANTILLONS(IND.)
LOW	0018					L.015	L.001	L.010	L.002	MINIMUM
HIGH						L.015	8.40	L.05	.003	MAXIMUM
AVERAGE							.108*		.002*	MOYENNE
STD.DEV.							.917*		.001*	ECART-TYPE
PERCNT:10TH							L.001			10 <sup>e</sup> PERCNT
25TH							L.001			25 <sup>e</sup>
MEDIAN 50TH							L.001	L.010	.002*	50 <sup>e</sup> MEDIANE
75TH							L.001			75 <sup>e</sup>
90TH							.011			90 <sup>e</sup>
SECONDARY CODE						02P	05L 07L	04P		CODE DE SECOURS

		26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
	SUBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0402	90(61)	5(2)	5(2)	55(4)	5(2)	40(8)	5(2)	108(24)	ECHANTILLONS(IND.)
LOW	0018	.005	.04	.003	L.001	.006	L.001	.007	.001	MINIMUM
HIGH		.10	.21	L.05	.219	L.01	.146	.027	3.9	MAXIMUM
AVERAGE		.052*	.080*	.022*	.013*	.008*	.007*	.012*	.079*	MOYENNE
STD.DEV.		.017*	.073*	.025*	.039*	.002*	.023*	.008*	.373*	ECART-TYPE
PERCNT:10TH		L.050			.001		L.001		.010	10 <sup>e</sup> PERCNT
25TH		L.05	L.05	.004	.004	.007	.001	.008	.019	25 <sup>e</sup>
MEDIAN 50TH		L.050	L.05	.004	.005	.007	.003	L.01	L.037	50 <sup>e</sup> MEDIANE
75TH		L.05	.05	L.05	.008	L.01	.004	L.01	.052	75 <sup>e</sup>
90TH		.075			.012		.008		.092	90 <sup>e</sup>
SECONDARY CODE		07L	04P	01P	07L	06P	07L	04P	05L 04L	CODE DE SECOURS

		38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0402		2(2)	40(33)	2(1)	48(29)	3(2)	198(44)		ECHANTILLONS(IND.)
LOW	0018		L.10	L.001	L.001	L.001	L.004	L.1.		MINIMUM
HIGH			L.10	.005	.001	.050	L.05	26.		MAXIMUM
AVERAGE				.001*	.001*	.002*	.020*	2.*		MOYENNE
STD.DEV.				.001*	.000*	.007*	.026*	3.*		ECART-TYPE
PERCNT:10TH				L.001		L.001		L.1.		10 <sup>e</sup> PERCNT
25TH				L.001		L.001		1.		25 <sup>e</sup>
MEDIAN 50TH			L.1000	L.001	.001*	L.001	.006	2.		50 <sup>e</sup> MEDIANE
75TH				L.001		.001		3.		75 <sup>e</sup>
90TH				.001		.003		4.		90 <sup>e</sup>
SECONDARY CODE			01P	03L		04L	01P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## GREAT SLAVE LAKE SUB BASIN

01NW07SB0007

62° 27' N 35°

114° 23' W 20°

 1111 634600- 6928000  
 JUN 08 1971 TO/A JAN 02 1974

 FRAME LAKE ABOUT 0.05 KILOMETRES  
 SOUTH OF THE NORTH SHORE

	02041F SPECIFIC CONDUCT.	02041S SPECIFIC CONDUCT.	02075S TURBIDITY LIGHT PENETR. SECCHI DISC	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED	14201L SILICON SOL. ORTHO SILICATE	08101F OXYGEN DISSOLVED	
SUBM ID	USIE CM	USIE CM	M	PH UNITS	N MG/L	P MG/L	SI MG/L	O2 MG/L	
SAMPLES(FLAGS) 0402	47(0)	104(0)	26(0)	139(0)	120(0)	96(0)	126(0)	132(19)	ECHANTILLONS(IND.)
LOW	260.	240.	.60	7.1	.10	.004	.05	L.1	MINIMUM
HIGH	983.	950.	6.25	8.7	3.63	.447	1.76	27.0	MAXIMUM
AVERAGE	414.	359.	3.12		.94	.029	.32	8.2*	MOYENNE
STD.DEV.	185.	129.	1.19		.70	.056	.31	5.1*	ECART-TYPE
PERCNT:10TH	298.	261.	1.90	7.3	.20	.007	.07	L.1	10 <sup>e</sup> PERCNT
25TH	318.	275.	2.50	7.6	.40	.011	.11	6.3	25 <sup>e</sup>
MEDIAN 50TH	335.	315.	3.05	8.0	.87	.016	.19	9.0	50 <sup>e</sup> MEDIANE
75TH	372.	385.	3.50	8.3	1.29	.024	.43	10.2	75 <sup>e</sup>
90TH	830.	490.	5.15	8.5	1.78	.031	.76	12.2	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19105L POTASSIUM DISSOLVED	11105L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06202F BICARBONT. LAB CALC.	17207L CHLORIDE DISSOLVED	16305L SULPHATE DISSOLVED	25105L MANGANESE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	HC03 MG/L	CL MG/L	SO4 MG/L	MN MG/L	
SAMPLES(FLAGS) 0402	118(0)	118(0)	118(0)	118(0)	136(0)	115(0)	115(0)	58(24)	ECHANTILLONS(IND.)
LOW	4.7	3.0	6.26	13.3	116.	2.7	26.4	L.001	MINIMUM
HIGH	12.8	27.1	92.2	43.5	470.	137.	225.	6.59	MAXIMUM
AVERAGE	6.4	12.7	41.09	20.3	179.	18.8	50.2	.212*	MOYENNE
STD.DEV.	2.1	4.6	17.46	7.6	75.	16.4	33.1	.876*	ECART-TYPE
PERCNT:10TH	5.0	9.2	28.5	14.5	129.	12.0	33.8	L.001	10 <sup>e</sup> PERCNT
25TH	5.1	9.7	31.7	15.5	134.	13.4	37.0	L.001	25 <sup>e</sup>
MEDIAN 50TH	5.6	11.0	34.85	16.6	146.	15.0	42.3	.011	50 <sup>e</sup> MEDIANE
75TH	6.0	12.4	41.3	20.9	183.	17.0	48.1	.080	75 <sup>e</sup>
90TH	10.7	20.9	75.4	35.2	323.	27.3	73.0	.494	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	25305L MANGANESE EXTRBL.	26104L IRON DISSOLVED	29107L COPPER DISSOLVED	30107L ZINC DISSOLVED	33105L ARSENIC DISSOLVED	48103L CADMIUM DISSOLVED	82104L LEAD DISSOLVED	10401L RESIDUE NONFILTR.	
SUBM ID	MN MG/L	FE MG/L	CU MG/L	ZN MG/L	AS MG/L	CD MG/L	PB MG/L	MG/L	
SAMPLES(FLAGS) 0402		61(35)	37(0)	24(1)	110(0)	26(22)	33(8)	123(11)	ECHANTILLONS(IND.)
LOW		L.005	.001	L.001	.23	L.001	L.000	L.1	MINIMUM
HIGH		.98	.020	.017	1.45	.010	.014	37.	MAXIMUM
AVERAGE		.093*	.007	.004*	.56	.001*	.002*	3.*	MOYENNE
STD.DEV.		.172*	.004	.004*	.25	.002*	.002*	5.*	ECART-TYPE
PERCNT:10TH		.013	.002	.001	.35	L.001	L.001	1.	10 <sup>e</sup> PERCNT
25TH		L.05	.004	.002	.41	L.001	L.001	2.	25 <sup>e</sup>
MEDIAN 50TH		L.05	.005	.002	.48	L.001	.002	3.	50 <sup>e</sup> MEDIANE
75TH		.06	.010	.004	.61	L.001	.003	4.	75 <sup>e</sup>
90TH		.11	.014	.008	.95	.002	.004	4.	90 <sup>e</sup>
SECONDARY CODE		07L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB-BASIN

STATION **01NW07SB0009** LAT. **62 D 26 M 39 S** LONG. **114 D 21 M 54 S**UTM **11 636000E 6926300 N**  
JAN 16, 1974 TO/À MAY 28, 1975YELLOWKNIFE BAY, GREAT SLAVE LAKE  
(NORTH ARM), AT MILL FRESHWATER INTAKE

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073F TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID		USIE/CM								
SAMPLES(FLAGS)	0018	9(0)	5(0)	9(0)	9(0)	9(0)	9(0)	9(0)	5(0)	ECHANTILLONS(IND.)
LOW		41.	22.	16.	5.	.9	7.0	14.3	-2.3	MINIMUM
HIGH		185.	100.	77.	25.	8.0	8.1	64.	-.1	MAXIMUM
AVERAGE		95.	65.	42.0	14.	3.2		32.6		MOYENNE
STD.DEV.		55.	35.	23.6	7.	2.1		19.7		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		56.	33.	22.2	10.	2.1	7.2	17.8	-1.7	25 <sup>e</sup>
MEDIAN 50TH		69.	77.	34.4	15.	2.5	7.6	26.0	-.5	50 <sup>e</sup> MEDIANE
75TH		140.	91.	61.	20.	3.4	7.8	48.	-.4	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						73L				CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID										
SAMPLES(FLAGS)	0018	9(0)	9(0)	9(0)		4(0)	4(0)	9(0)	5(0)	ECHANTILLONS(IND.)
LOW		.8	1.5	4.7		0.	18.	2.0	2.5	MINIMUM
HIGH		1.1	6.1	23.		0.	78.	11.	16.	MAXIMUM
AVERAGE		.9	3.4	12.00		0.	57.	4.1	11.3	MOYENNE
STD.DEV.		.1	1.8	7.11		0.	27.	3.1	5.6	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.9	2.1	6.21		0.	38.	2.1	9.0	25 <sup>e</sup>
MEDIAN 50TH		.9	2.5	10.1		0.	66.	2.6	14.	50 <sup>e</sup> MEDIANE
75TH		.9	5.2	18.		0.	76.	5.9	15.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				01L				06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07106L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15256L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SIO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	09105L FLUORIDE DISSOLVED F MG/L	
SUBM ID										
SAMPLES(FLAGS)	0018	4(0)	4(0)			4(0)	2(0)	4(0)		ECHANTILLONS(IND.)
LOW		.3	.01			.009	.8	5.		MINIMUM
HIGH		.6	.05			.024	1.5	6.		MAXIMUM
AVERAGE		.4	.033			.016	1.15	5.5		MOYENNE
STD.DEV.		.2	.017			.008	.49	.6		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.3	.020			.010		5.0		25 <sup>e</sup>
MEDIAN 50TH		.3	.035			.016	1.15	5.5		50 <sup>e</sup> MEDIANE
75TH		.5	.045			.023		6.0		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						13L				CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## GREAT SLAVE LAKE SUB BASIN

STATION 01NW07SB0009 LAT. 62 D 26 M 39 S LONG. 114 D 21 M 54 S

UTM 11 636000E 6926300 N  
JUN 24 1974 TO/A NOV 07 1974YELLOWKNIFE BAY GREAT SLAVE LAKE  
(NORTH ARM) AT MILL FRESHWATER INTAKE

	03301P LITHIUM EXTRBL.	05103L BORON DISSOLVED	13303P ALUMINUM EXTRBL.	23302P VANADIUM EXTRBL.	24303P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25305P MANGANESE EXTRBL.	27302P COBALT EXTRBL.	
SEBM ID	LI MG/L	B MG/L	AL MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	CO MG/L	
SAMPLES(FLAGS) 0018					1(1)		4(4)	4(1)	ECHANTILLONS(IND.)
LOW					L.015		L.010	L.002	MINIMUM
HIGH					L.015		L.010	.006	MAXIMUM
AVERAGE								.004*	MOYENNE
STD.DEV.								.002*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH							L.010	.003*	25 <sup>e</sup>
MEDIAN 50TH							L.010	.004	50 <sup>e</sup> MEDIANE
75TH							L.010	.005	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE					02P		04P		CODE DE SECOURS

	26104L IRON DISSOLVED	26305P IRON EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
SEBM ID	FE MG/L	FE MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS) 0018		9(0)	9(4)		9(3)		9(0)	9(3)	ECHANTILLONS(IND.)
LOW		.05	L.001		L.001		.001	.005	MINIMUM
HIGH		.19	.008		.022		.10	.07	MAXIMUM
AVERAGE		.078	.004*		.007*		.015	.025*	MOYENNE
STD.DEV.		.044	.003*		.007*		.032	.024*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.05	L.002		L.001		.004	L.01	25 <sup>e</sup>
MEDIAN 50TH		.07	.004		.006		.004	.015	50 <sup>e</sup> MEDIANE
75TH		.08	.007		.007		.007	.026	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		04P 04L						04L	CODE DE SECOURS

	38301P STRONTIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48102L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
SEBM ID	SR MG/L	MO MG/L	CD MG/L	CD MG/L	PB MG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0018		3(3)		4(1)		5(4)	1(0)	1(0)	ECHANTILLONS(IND.)
LOW		L.10		L.001		L.004	18.	10.	MINIMUM
HIGH		L.10		.002		.08	18.	10.	MAXIMUM
AVERAGE				.002*		.019*			MOYENNE
STD.DEV.				.001*		.034*			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				.001*		L.004			25 <sup>e</sup>
MEDIAN 50TH		L.10		.002		L.004			50 <sup>e</sup> MEDIANE
75TH				.002		L.004			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		01P				04P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives







# GREAT BEAR LAKE

# WATER QUALITY STATIONS : ALPHABETICAL INDEX

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
CAMSELL RIVER AT MILL FRESHWATER INTAKE, NORTHWEST TERRITORIES	00NW10JA0002	65	36	40	118	9	50	900
CAMSELL RIVER AT OUTLET OF CLUT LAKE, NORTHWEST TERRITORIES	00NW10JA0001 97900S002	65	36	0	117	45	30	898
GREAT BEAR RIVER ABOUT 100 METRES ABOVE BRACKETT RIVER NORTHWEST TERRITORIES	00NW10JC0003	64	58	5	125	27	5	908
GREAT BEAR RIVER AT MOUTH NEAR FORT NORMAN, NORTHWEST TERRITORIES	00NW10JC0002	64	55	0	125	35	0	906
GREAT BEAR RIVER AT OUTLET OF GREAT BEAR LAKE NEAR FORT FRANKLIN, NORTHWEST TERRITORIES	00NW10JC0001 97900S003	65	8	0	123	31	0	904
HOHUM LAKE 40 FEET FROM TERRA MINE TAILINGS EFFLUENT, NORTHWEST TERRITORIES	01NW10JA0005	65	37		118	8		914
JOHNNY HOE RIVER ABOVE LAC STE. THERESE, NORTHWEST TERRITORIES	00NW10JB0001 97900S001	64	34	0	121	44	30	902
LABINE BAY RAW WATER AT DREDGE PUMPHOUSE, ECHO BAY MINE STATION 2, NORTHWEST TERRITORIES	01NW10JA0004	66	5		118	3		912
LABINE BAY RAW WATER AT MAIN PUMPHOUSE, ECHO BAY MINE STATION 3, NORTHWEST TERRITORIES	01NW10JA0002	66	5		118	3		910
LABINE BAY, GREAT BEAR LAKE, MAIN PUMP-HOUSE FRESHWATER INTAKE (FOR MILL), NORTH SHORE OF BAY, OPPOSITE MILL POWERHOUSE, ECHO BAY MINES, NORTH WEST TERRITORIES	01NW10JA0009	66	5		118	2		916

## MACKENZIE RIVER BASIN 1960 79

## GREAT BEAR LAKE SUB BASIN

00NW10JA0001 65 D 36M 0 S LONG 117 D 45M 30 S

ITEM 11 465000 7275000  
AUG 25 1969 TO/A SEP 19 1979CAMSILL RIVER AT OUTLET OF CLUT LAKE  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0001	29(0)	28(0)	26(0)	30(6)	29(0)	29(0)	27(0)	28(0)	ECHANTILLONS(IND.)
LOW	0018	77.	44.	41.1	15.	2	6.8	34.3	-1.8	MINIMUM
HIGH	0124	206.	76.	80.9	75.	7.5	8.2	54.5	-3	MAXIMUM
AVERAGE		116.	60.	55.2	8.	2.1		44.2		MOYENNE
STD.DEV.		23.	9.	9.0	13.	1.8		5.7		ECART-TYPE
PERCNT:10TH		91.	48.	44.4	15.	4	7.3	37.4	-1.4	10 <sup>e</sup> PERCNT
25TH		105.	54.	49.7	5.	9	7.7	39.8	-1.0	25 <sup>e</sup>
MEDIAN 50TH		116.	58.	53.1	5.	1.5	7.8	43.	-.8	50 <sup>e</sup> MEDIANE
75TH		123.	66.	61.1	5.	2.2	7.9	49.2	-.7	75 <sup>e</sup>
90TH		133.	74.	65.2	10.	5.5	8.1	53.2	-.5	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0001	30(0)	30(0)	28(0)	4(0)	20(0)	20(0)	30(0)	30(0)	ECHANTILLONS(IND.)
LOW	0018	6	1.2	10.2	5.1	0.	43.	1.4	.8	MINIMUM
HIGH	0124	2.5	2.8	18.2	6.0	0.	66.	3.0	21.0	MAXIMUM
AVERAGE		.9	1.9	14.20	5.6	0.	53.	2.1	9.9	MOYENNE
STD.DEV.		.3	.4	2.13	.4	0.	7.	.4	3.6	ECART-TYPE
PERCNT:10TH		.7	1.4	11.4		0.	45.	1.5	6.5	10 <sup>e</sup> PERCNT
25TH		.8	1.6	12.65	5.3	0.	48.	1.9	8.2	25 <sup>e</sup>
MEDIAN 50TH		.9	1.9	14.00	5.7	0.	50.	2.1	9.8	50 <sup>e</sup> MEDIANE
75TH		1.	2.1	16.00	5.9	0.	57.	2.3	11.5	75 <sup>e</sup>
90TH		1.1	2.5	17.3		0.	64.	2.6	14.1	90 <sup>e</sup>
SECONDARY CODE				03L				06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0001	16(10)	25(10)	3(3)	3(2)	6(5)	7(5)	30(0)	6(0)	ECHANTILLONS(IND.)
LOW	0018	L.1	L.001	L.1	L.003	L.002	L.001	.7	4.0	MINIMUM
HIGH	0124	.6	.128	L.1	.003	.010	.007	3.0	7.0	MAXIMUM
AVERAGE		.4*	.026*		.003*	.003*	.002*	1.3	5.5	MOYENNE
STD.DEV.		.2*	.031*		.000*	.003*	.002*	.4	1.2	ECART-TYPE
PERCNT:10TH		L.1	L.005					1.0		10 <sup>e</sup> PERCNT
25TH		.2*	L.01			L.002	L.001	1.1	5.0	25 <sup>e</sup>
MEDIAN 50TH		.4*	.010	L.1	L.003	L.002	L.001	1.2	5.0	50 <sup>e</sup> MEDIANE
75TH		L.5	.030			L.002	.003	1.4	7.0	75 <sup>e</sup>
90TH		.6	.070					1.7		90 <sup>e</sup>
SECONDARY CODE		02L	06L 06F			55F	63F 64L	05L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
GREAT BEAR LAKE SUB-BASIN

STATION **00NW10JA0001** LAT. **65 D 36M 0 S** LONG. **117 D 45M 30 S**

UTM **11 465000E 7275000 N**  
AUG 25, 1969 TO/À SEP 19, 1979

CAMSELL RIVER AT OUTLET OF CLUT LAKE,  
NORTHWEST TERRITORIES

	SUBM ID	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	23301P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	
<b>SAMPLES(FLAGS)</b>	0001	2(2)	5(1)	5(5)	12(12)	5(5)	21(20)	7(2)	18(16)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0124	<b>L.005</b>	<b>L.02</b>	<b>L.001</b>	<b>L.010</b>	<b>L.010</b>	<b>L.01</b>	<b>L.001</b>	<b>L.04</b>	<b>MINIMUM</b>
<b>HIGH</b>	0018	<b>L.005</b>	<b>.03</b>	<b>L.05</b>	<b>L.015</b>	<b>L.01</b>	<b>L.014</b>	<b>.120</b>	<b>.15</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.02*</b>				<b>.010*</b>	<b>.026*</b>	<b>.052*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.01*</b>				<b>.001*</b>	<b>.043*</b>	<b>.025*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					<b>L.010</b>		<b>L.01</b>		<b>L.04</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>.02</b>	<b>L.001</b>	<b>L.010</b>	<b>L.01</b>	<b>L.01</b>	<b>L.001</b>	<b>L.04</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.005</b>	<b>.02</b>	<b>L.001</b>	<b>L.010</b>	<b>L.01</b>	<b>L.01</b>	<b>.010</b>	<b>L.050</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>.03</b>	<b>L.05</b>	<b>L.015</b>	<b>L.01</b>	<b>L.010</b>	<b>.030</b>	<b>L.05</b>	<b>75<sup>e</sup></b>
<b>90TH</b>					<b>L.015</b>		<b>L.010</b>		<b>.05</b>	<b>90<sup>e</sup></b>
SECONDARY CODE				02P		01L	04L			CODE DE SECOURS

	SUBM ID	27302P COBALT EXTRBLE. CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	
<b>SAMPLES(FLAGS)</b>	0001	19(14)	16(13)	4(0)	19(7)	4(0)	21(9)	7(6)	2(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0018	<b>L.001</b>	<b>L.001</b>	<b>.001</b>	<b>L.001</b>	<b>.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>.05</b>	<b>MINIMUM</b>
<b>HIGH</b>	0124	<b>L.02</b>	<b>L.025</b>	<b>.003</b>	<b>L.010</b>	<b>.004</b>	<b>.014</b>	<b>.010</b>	<b>.06</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.003*</b>	<b>.005*</b>	<b>.002</b>	<b>.003*</b>	<b>.003</b>	<b>.005*</b>	<b>.0036*</b>	<b>.06</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.004*</b>	<b>.006*</b>	<b>.001</b>	<b>.003*</b>	<b>.001</b>	<b>.004*</b>	<b>.0035*</b>	<b>.01</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.001</b>	<b>L.002</b>		<b>L.001</b>		<b>L.001</b>			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.001</b>	<b>.002*</b>	<b>.001</b>	<b>.001</b>	<b>.002</b>		<b>L.0005</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.001</b>	<b>L.005</b>	<b>.001</b>	<b>.003</b>	<b>.004</b>	<b>.003</b>	<b>L.004</b>	<b>.06</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.002</b>	<b>L.005</b>	<b>.002</b>	<b>.004</b>	<b>.004</b>	<b>.009</b>	<b>L.005</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>L.005</b>	<b>.005</b>		<b>.008</b>		<b>L.01</b>			<b>90<sup>e</sup></b>
SECONDARY CODE		01P	01P		06P		04P 04L	04L		CODE DE SECOURS

	SUBM ID	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	82302P LEAD EXTRBLE. PB MG/L	08301L OXYGEN TOTAL COD O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
<b>SAMPLES(FLAGS)</b>	0001	12(11)	19(15)	15(15)	21(20)	12(5)	23(1)	4(1)	1(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0018	<b>.01</b>	<b>L.001</b>	<b>L.0</b>	<b>L.001</b>	<b>L10.</b>	<b>.01</b>	<b>L1.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>	0124	<b>L.10</b>	<b>.022</b>	<b>L.1</b>	<b>L.04</b>	<b>27.</b>	<b>1.3</b>	<b>1.</b>	<b>L1.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.06*</b>	<b>.003*</b>		<b>.006*</b>	<b>15.*</b>	<b>.15*</b>	<b>1.*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.03*</b>	<b>.005*</b>		<b>.008*</b>	<b>6.*</b>	<b>.25*</b>	<b>0.*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.05</b>	<b>L.001</b>	<b>L.0</b>	<b>L.004</b>	<b>L10.</b>	<b>.02</b>			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.05</b>	<b>L.001</b>	<b>L.0</b>	<b>L.004</b>	<b>L10.</b>	<b>.09</b>	<b>1.*</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.05</b>	<b>L.001</b>	<b>L.1</b>	<b>L.005</b>	<b>12.</b>	<b>.11</b>	<b>1.</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.10</b>	<b>.001</b>	<b>L.1</b>	<b>L.005</b>	<b>18.</b>	<b>.13</b>	<b>1.</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>L.10</b>	<b>L.009</b>	<b>L.1</b>	<b>L.01</b>	<b>21.</b>	<b>.15</b>			<b>90<sup>e</sup></b>
SECONDARY CODE			01P		01L 01P		06L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
GREAT BEAR LAKE SUB-BASIN

00NW10JA0002 65 36 40 118 9 50

11 446400 7276800  
JAN 21, 1970 TO/A NOV 09 1976

CAMSELL RIVER AT MILL FRESHWATER  
INTAKE NORTHWEST TERRITORIES

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0018	19(0)	14(0)	13(0)	19(2)	19(0)	18(0)	17(0)	14(0)
LOW	0001	10.	51.	46.4	0.	.1	7.4	39.2	-1.3
HIGH		181.	73.	65.	20.	3.6	8.0	56.	-6
AVERAGE		119.	62.	56.8	7.*	1.3	47.1		
STD.DEV.		32.	7.	5.6	4.*	.9	4.9		
PERCNT:10TH		102.	54.	51.	15.	.2	7.4	42.2	-1.1
25TH		111.	57.	53.	5.	.5	7.5	43.1	-1.0
MEDIAN 50TH		120.	59.	56.	5.	1.2	7.6	46.	-9
75TH		135.	69.	60.9	10.	1.5	7.8	50.9	-7
90TH		142.	71.	63.8	15.	2.8	7.9	55.1	-6
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0018	17(0)	17(0)	17(0)	3(0)	13(0)	13(0)	16(0)	15(0)
LOW	0001	.8	1.5	11.9	4.9	0.	51.	.4	7.2
HIGH		1.2	2.4	19.9	6.5	0.	68.	3.8	12.6
AVERAGE		.9	2.0	14.37	5.7	0.	58.	2.1	9.5
STD.DEV.		.1	.2	2.36	.8	0.	6.	.7	1.7
PERCNT:10TH		.8	1.6	12.		0.	52.	.9	7.8
25TH		.8	1.9	13.		0.	53.	2.0	8.1
MEDIAN 50TH		.9	2.0	13.9	5.6	0.	56.	2.1	9.0
75TH		1.0	2.1	14.9		0.	62.	2.3	11.
90TH		1.2	2.3	19.3		0.	67.	2.8	12.0
SECONDARY CODE									03L 06L 04L 06L CODE DE SECOURS

	07001L NITROGEN DISSOLVED	07105L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SIO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0018	6(1)	15(7)	2(2)			15(0)	11(0)	
LOW	0001	.2	L.005	L.003			1.1	2.9	
HIGH		.6	.39	L.003			1.8	5.	
AVERAGE		.4*	.041*				1.4	4.1	
STD.DEV.		.1*	.098*				.2	.7	
PERCNT:10TH			L.005				1.1	3.2	
25TH			L.005				1.2	4.	
MEDIAN 50TH			L.01	L.003			1.3	4.0	
75TH			.020				1.5	5.0	
90TH			.055				1.8	5.0	
SECONDARY CODE									02L 06L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
GREAT BEAR LAKE SUB-BASIN

STATION **00NW10JA0002** LAT. **65 D 36M 40 S** LONG. **118 D 9M 50 S**

UTM **11 446400E 7276800 N**  
JAN 21, 1970 TO/À NOV 09, 1976

CAMSELL RIVER AT MILL FRESHWATER  
INTAKE, NORTHWEST TERRITORIES

	SUBM ID	03301P LITHIUM EXTRBL. LI MG/L	05105L BORON DISSOLVED B MG/L	23301P VANADIUM EXTRBL. V MG/L	24302P CHROMIUM EXTRBL. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBL. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBL. FE MG/L	
SAMPLES(FLAGS)	0018				3(2)		7(7)		20(4)	ECHANTILLONS(IND.)
LOW	0001				L.006		L.010		L.04	MINIMUM
HIGH					.015		L.014		1.00	MAXIMUM
AVERAGE					.012*				.158*	MOYENNE
STD.DEV.					.005*				.231*	ECART-TYPE
PERCNT:10TH									L.045	10 <sup>e</sup> PERCNT
25TH							L.010		.050	25 <sup>e</sup>
MEDIAN 50TH					L.015		L.010		.080	50 <sup>e</sup> MEDIANE
75TH							L.010		.125	75 <sup>e</sup>
90TH									.405	90 <sup>e</sup>
SECONDARY CODE									04L 02L	CODE DE SECOURS

	SUBM ID	27302P COBALT EXTRBL. CO MG/L	28302P NICKEL EXTRBL. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBL. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBL. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBL. SR MG/L	
SAMPLES(FLAGS)	0018	11(7)	11(6)		13(6)		14(4)	8(4)	2(0)	ECHANTILLONS(IND.)
LOW	0001	L.001	L.002		L.001		.001	L.0005	.01	MINIMUM
HIGH		L.02	L.05		.056		.02	.005	.06	MAXIMUM
AVERAGE		.006*	.014*		.010*		.009*	.0020*	.04	MOYENNE
STD.DEV.		.006*	.019*		.014*		.007*	.0019*	.04	ECART-TYPE
PERCNT:10TH		L.002	L.002		.001		.001			10 <sup>e</sup> PERCNT
25TH		L.002	.003		.001		.002	.0005*		25 <sup>e</sup>
MEDIAN 50TH		.003	L.004		.008		.007*	.0008	.04	50 <sup>e</sup> MEDIANE
75TH		L.01	L.025		L.010		.016	L.0040		75 <sup>e</sup>
90TH		.01	L.05		L.01		.020			90 <sup>e</sup>
SECONDARY CODE		01P	01P		06P 05L		04P 04L 05L	04L		CODE DE SECOURS

	SUBM ID	42301P MOLYBDENUM EXTRBL. MO MG/L	48302P CADMIUM EXTRBL. CD MG/L	56301P BARIUM EXTRBL. BA MG/L	82302P LEAD EXTRBL. PB MG/L	08301L OXYGEN TOTAL COD O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS)	0018	5(5)	8(5)	2(2)	10(8)		2(0)			ECHANTILLONS(IND.)
LOW	0001	L.05	L.001	L.0	.002		.12			MINIMUM
HIGH		L.10	L.009	L.1	L.05		.12			MAXIMUM
AVERAGE			.002*		.021*		.12			MOYENNE
STD.DEV.			.003*		.023*		.00			ECART-TYPE
PERCNT:10TH					.003*					10 <sup>e</sup> PERCNT
25TH		L.06	.001		L.004					25 <sup>e</sup>
MEDIAN 50TH		L.10	L.002	L.1	L.005		.12			50 <sup>e</sup> MEDIANE
75TH		L.1	.002*		L.05					75 <sup>e</sup>
90TH					L.050					90 <sup>e</sup>
SECONDARY CODE			01P		01P					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## GREAT BEAR LAKE SUB BASIN

STATION 00NW10JB0001 LAT. 64 D 34 M 0 S LONG. 121 D 44 M 30 S

UTM 10 560000E 7161000 N  
AUG 25 1969 TO/A NOV 09 1976JOHNNY HOE RIVER ABOVE LAC STE.  
THERESE NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0001	12(0)	12(0)	13(0)	13(1)	13(0)	12(0)	13(0)	12(0)	ECHANTILLONS(IND.)
LOW	0018	164.	94.	85.4	5.	.8	7.6	61.0	-.7	MINIMUM
HIGH	0124	492.	276.	224.	G100.	30.0	8.2	147.	.4	MAXIMUM
AVERAGE		303.	167.	139.0	38.*	4.9		99.8		MOYENNE
STD.DEV.		110.	65.	48.5	29.*	7.9		27.4		ECART-TYPE
PERCNT:10TH		197.	100.	92.3	10.	1.3	7.6	75.7	-.4	10 <sup>e</sup> PERCNT
25TH		226.	120.	110.	10.	1.5	7.7	80.0	-.2	25 <sup>e</sup>
MEDIAN 50TH		273.	147.	117.	40.	2.2	8.0	90.1	.1	50 <sup>e</sup> MEDIANE
75TH		388.	224.	158.	55.	3.5	8.1	113.	.2	75 <sup>e</sup>
90TH		476.	261.	215.	65.	10.0	8.2	141.	.3	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16305L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0001	13(0)	13(0)	12(0)		9(0)	9(0)	13(0)	13(0)	ECHANTILLONS(IND.)
LOW	0124	.5	3.7	24.7		0.	92.	3.4	14.3	MINIMUM
HIGH	0018	1.6	19.7	70.5		0.	172.	21.1	78.6	MAXIMUM
AVERAGE		.9	8.0	39.52		0.	125.	7.6	38.7	MOYENNE
STD.DEV.		.4	4.3	14.71		0.	30.	4.7	22.3	ECART-TYPE
PERCNT:10TH		.7	4.1	26.1				4.3	18.	10 <sup>e</sup> PERCNT
25TH		.7	5.0	28.95		0.	105.	4.4	24.0	25 <sup>e</sup>
MEDIAN 50TH		.8	6.1	33.70		0.	113.	5.5	29.3	50 <sup>e</sup> MEDIANE
75TH		.9	8.8	49.90		0.	138.	8.9	44.7	75 <sup>e</sup>
90TH		1.6	11.9	59.5				9.8	76.3	90 <sup>e</sup>
SECONDARY CODE									04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL	07105L NITROGEN DISSOLVED	07551L NITROGEN DISSOLVED	15103L PHOSPHORUS TOTAL	15255L PHOSPHORUS DISSOLVED	15363L PHOSPHORUS DISSOLVED	14102L SILICA REACTIVE	06001L CARBON TOTAL	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0001	4(1)	12(4)	3(0)		5(4)	6(2)	13(0)	5(0)	ECHANTILLONS(IND.)
LOW	0018	L.5	L.001	.2		L.002	L.001	1.2	9.0	MINIMUM
HIGH	0124	.8	.190	.3		.010	.010	4.2	89.0	MAXIMUM
AVERAGE		.7*	.056*	.2		.004*	.004*	2.7	28.4	MOYENNE
STD.DEV.		.1*	.065*	.1		.004*	.003*	1.0	34.1	ECART-TYPE
PERCNT:10TH			L.005					1.3		10 <sup>e</sup> PERCNT
25TH		.5*	L.005			L.002	L.001	1.9	10.0	25 <sup>e</sup>
MEDIAN 50TH		.7	.030	.2		L.002	.003	2.5	17.0	50 <sup>e</sup> MEDIANE
75TH		.8	.080			L.002	.004	3.6	17.0	75 <sup>e</sup>
90TH			.170					4.0		90 <sup>e</sup>
SECONDARY CODE			06L 06F			55F	64L 63F			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
GREAT BEAR LAKE SUB-BASIN

STATION **00NW10JB0001** LAT. **64 D 34 M 0 S** LONG. **121 D 44 M 30 S**

UTM **10 560000E 7161000N**  
AUG 25, 1969 TO/À NOV 09, 1976

JOHNNY HOE RIVER ABOVE LAC STE.  
THERESE, NORTHWEST TERRITORIES

	SUBM ID	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	23301P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	
SAMPLES(FLAGS)	0001	2(1)	2(1)	2(2)	1(1)	4(4)	6(4)	6(0)	4(0)	ECHANTILLONS(IND.)
LOW	0124	L.005	L.02	L.05	L.010	L.01	L.01	.020	.05	MINIMUM
HIGH	0018	.008	.06	L.05	L.010	L.01	.02	.090	.23	MAXIMUM
AVERAGE		.006*	.04*				.012*	.057	.148	MOYENNE
STD.DEV.		.002*	.03*				.004*	.027	.075	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH						L.010	L.01	.030	.095	25 <sup>e</sup>
MEDIAN 50TH		.006*	.04*	L.0500		L.010	L.010	.065	.155	50 <sup>e</sup> MEDIANE
75TH						L.010	.01	.070	.200	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						01L	04L			CODE DE SECOURS

	SUBM ID	27302P COBALT EXTRBLE. CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	
SAMPLES(FLAGS)	0001	4(2)	4(2)	3(1)	4(1)	3(0)	6(2)	2(2)	2(0)	ECHANTILLONS(IND.)
LOW	0018	L.001	.004	L.001	L.001	.001	.003	L.005	.16	MINIMUM
HIGH	0124	.002	.012	.004	.012	.005	.019	L.005	.63	MAXIMUM
AVERAGE		.001*	.006*	.002*	.007*	.002	.011*		.40	MOYENNE
STD.DEV.		.001*	.004*	.002*	.005*	.002	.005*		.33	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.001	.004*		.004*		L.01			25 <sup>e</sup>
MEDIAN 50TH		.001*	L.005	.001	.008	.001	.010*	L.0050	.40	50 <sup>e</sup> MEDIANE
75TH		.002	.008*		.010		.015			75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE							04L			CODE DE SECOURS

	SUBM ID	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	82302P LEAD EXTRBLE. PB MG/L	08301L OXYGEN TOTAL COD MG/L	09105L FLUORIDE DISSOLVED F MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS)	0001	2(2)	4(3)	1(1)	6(5)	2(0)	10(1)	2(1)	2(2)	ECHANTILLONS(IND.)
LOW	0124	L.05	L.001	L.1	L.001	40.	L.05	L.1	L.1	MINIMUM
HIGH	0018	L.05	.002	L.1	L.01	56.	.26	4.	L.1	MAXIMUM
AVERAGE			.001*		.005*	48.	.11*	2.*		MOYENNE
STD.DEV.			.001*		.004*	12.	.06*	2.*		ECART-TYPE
PERCNT:10TH							.06*			10 <sup>e</sup> PERCNT
25TH			L.001		L.001		.08			25 <sup>e</sup>
MEDIAN 50TH		L.05	L.001		.005*	48.	.09	2.*	L.1	50 <sup>e</sup> MEDIANE
75TH			.001*		L.01		.13			75 <sup>e</sup>
90TH							.22			90 <sup>e</sup>
SECONDARY CODE					01L	01P	06L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## GREAT BEAR LAKE SUB BASIN

STATION 00NW10JC0001 LAT 65 D 8 M 0 S LONG. 123 D 31 M 0 S

UTM 10 476000E 7224000N

AUG 06 1969 TO/A NOV 29 1979

GREAT BEAR RIVER AT OUTLET OF GREAT  
BEAR LAKE NEAR FORT FRANKLIN

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIF/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0001	24(0)	24(0)	21(0)	25(12)	25(0)	24(0)	21(0)	24(0)	ECHANTILLONS(IND.)
LOW	0124	102.	45.	30.4	L5.	.3	7.3	23.0	-1.6	MINIMUM
HIGH	0056	214.	97.	77.9	75.	20.0	8.2	61.1	-.1	MAXIMUM
AVERAGE		157.	79.	67.0	9.*	3.9		53.3		MOYENNE
STD.DEV.		22.	10.	9.9	14.*	4.8		8.0		ECART-TYPE
PERCNT:10TH		132.	69.	58.8	L5.	.3	7.5	47.6	-1.1	10 <sup>e</sup> PERCNT
25TH		144.	75.	65.0	L5.	.7	7.7	51.4	-.8	25 <sup>e</sup>
MEDIAN 50TH		160.	81.	69.6	5.	2.5	7.9	55.5	-.6	50 <sup>e</sup> MEDIANE
75TH		169.	85.	72.5	5.	5.0	8.1	57.6	-.4	75 <sup>e</sup>
90TH		179.	90.	74.2	10.	6.4	8.2	59.5	-.3	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0001	28(0)	28(0)	27(0)	7(0)	21(0)	21(0)	28(0)	28(0)	ECHANTILLONS(IND.)
LOW	0402	.5	2.7	8.4	6.0	0.	28.	3.6	8.6	MINIMUM
HIGH	0124	1.0	5.5	23.6	8.1	0.	110.	7.1	30.0	MAXIMUM
AVERAGE	0056	.7	3.9	16.65	6.9	0.	66.	4.7	14.6	MOYENNE
STD.DEV.		.1	.7	3.10	.7	0.	14.	.7	3.9	ECART-TYPE
PERCNT:10TH		.6	3.0	12.6		0.	57.	3.8	11.1	10 <sup>e</sup> PERCNT
25TH		.6	3.5	15.0	6.3	0.	61.	4.1	13.1	25 <sup>e</sup>
MEDIAN 50TH		.7	3.8	17.2	6.7	0.	68.	4.7	14.0	50 <sup>e</sup> MEDIANE
75TH		.8	4.2	18.5	7.4	0.	70.	5.0	15.2	75 <sup>e</sup>
90TH		.8	4.6	20.3		0.	74.	5.5	16.7	90 <sup>e</sup>
SECONDARY CODE		05L	05L	03L				06L 07L	06L 05L 04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	
SAMPLES(FLAGS)	0001	13(10)	21(0)	3(3)	7(4)	9(9)	10(8)	25(0)	11(0)	ECHANTILLONS(IND.)
LOW	0124	L.1	.04	L.1	.001	L.002	L.001	1.6	1.	MINIMUM
HIGH	0056	.6	.250	L.1	.17	L.002	.007	3.2	7.0	MAXIMUM
AVERAGE	0402	.4*	.141		.029*		.002*	2.3	3.5	MOYENNE
STD.DEV.		.2*	.053		.063*		.002*	.4	1.6	ECART-TYPE
PERCNT:10TH		L.1	.090				L.001	1.8	2.0	10 <sup>e</sup> PERCNT
25TH		L.1	.093		L.003	L.002	L.001	2.1	3.0	25 <sup>e</sup>
MEDIAN 50TH		L.5	.147	L.1	L.003	L.002	L.001	2.3	3.0	50 <sup>e</sup> MEDIANE
75TH		L.5	.170		.02	L.002	L.001	2.5	4.0	75 <sup>e</sup>
90TH		L.5	.190				.006	2.7	5.0	90 <sup>e</sup>
SECONDARY CODE		02L	06L 06F		01L	55F	64L 63F	05L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## GREAT BEAR LAKE SUB-BASIN

STATION 00NW10JC0001 LAT. 65 D 8 M 0 S LONG. 123 D 31 M 0 S

UTM 10 476000E 7224000 N  
AUG 06, 1969 TO/À NOV 29, 1979GREAT BEAR RIVER AT OUTLET OF GREAT  
BEAR LAKE NEAR FORT FRANKLIN,

		03301P LITHIUM EXTRBL.	05105L BORON DISSOLVED	23301P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	
	SUBM ID	LI MG/L	B MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	FE MG/L	FE MG/L	
SAMPLES(FLAGS)	0402	5(5)	9(1)	9(9)	11(11)	9(9)	19(18)	11(2)	17(9)	ECHANTILLONS(IND.)
LOW	0001	L.005	L.02	L.001	L.010	L.001	L.006	.010	L.04	MINIMUM
HIGH	0124	L.005	.04	L.05	L.015	L.010	.04	.100	.56	MAXIMUM
AVERAGE	0056		.03*				.011*	.034*	.096*	MOYENNE
STD.DEV.			.01*				.007*	.029*	.127*	ECART-TYPE
PERCNT:10TH					L.010		L.01	.010	L.04	10 <sup>e</sup> PERCNT
25TH		L.005	.02	L.001	L.010	L.001	L.01	.010	.04	25 <sup>e</sup>
MEDIAN 50TH		L.005	.03	L.05	L.010	L.01	L.010	.020	L.05	50 <sup>e</sup> MEDIANE
75TH		L.005	.03	L.05	L.015	L.01	L.01	L.056	.08	75 <sup>e</sup>
90TH					L.015		L.01	.056	.20	90 <sup>e</sup>
SECONDARY CODE			02L	02P		05L 01L	04L 05P	07L		CODE DE SECOURS

		27302P COBALT EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBL.	
	SUBM ID	CO MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	SR MG/L	
SAMPLES(FLAGS)	0001	16(11)	12(9)	4(3)	17(8)	4(1)	20(7)	10(9)	5(0)	ECHANTILLONS(IND.)
LOW	0124	L.001	L.001	L.001	L.001	.001	L.001	L.0005	.10	MINIMUM
HIGH	0056	.015	.008	.002	.005	L.01	.029	.005	.13	MAXIMUM
AVERAGE		.002*	.004*	.001*	.002*	.004*	.006*	.0032*	.11	MOYENNE
STD.DEV.		.003*	.002*	.001*	.001*	.004*	.007*	.0023*	.01	ECART-TYPE
PERCNT:10TH		L.001	L.001		L.001		L.001	L.0005		10 <sup>e</sup> PERCNT
25TH		L.001	L.002	L.001	L.001	.001	.001	L.0005	.10	25 <sup>e</sup>
MEDIAN 50TH		.001	L.003	L.001	.001	.002	.002	L.0050	.12	50 <sup>e</sup> MEDIANE
75TH		L.002	.005*	.001*	.002	.006*	L.010	L.005	.12	75 <sup>e</sup>
90TH		.002	.007		.005		.012	.0050*		90 <sup>e</sup>
SECONDARY CODE						04L	04L	04L		CODE DE SECOURS

		42301P MOLYBDENUM EXTRBL.	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	82302P LEAD EXTRBL.	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	MO MG/L	CD MG/L	BA MG/L	PB MG/L	O2 MG/L	F MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	11(11)	16(13)	11(11)	20(19)	7(6)	23(2)	12(5)	5(0)	ECHANTILLONS(IND.)
LOW	0124	L.05	L.001	L.0	L.001	L.10	L.01	L.1	2.	MINIMUM
HIGH	0402	L.10	.002	L.1	L.01	39.	1.2	38.	30.	MAXIMUM
AVERAGE	0056		.001*		.004*	14.*	.13*	7.*	11.	MOYENNE
STD.DEV.			.000*		.003*	11.*	.23*	11.*	11.	ECART-TYPE
PERCNT:10TH		L.05	L.001	L.0	L.001		.06	L.1		10 <sup>e</sup> PERCNT
25TH		L.05	L.001	L.0	.002*	L10.	.07	L.1	3.	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.001	L.0	L.004	L10.	.08	3.	8.	50 <sup>e</sup> MEDIANE
75TH		L.10	L.001	L.1	L.005	L10.	.09	10.	10.	75 <sup>e</sup>
90TH		L.10	.002	L.1	L.010		.13	16.		90 <sup>e</sup>
SECONDARY CODE					01L	01P	06L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 79  
GREAT BEAR LAKE SUB BASIN

STATION 00NW10JC0002 LAT 64 D 55 M 0 S LONG 125 D 35 M 0 S

UTM 10 378000 7201000  
JUN 24 1971 TO/A NOV 05 1975

GREAT BEAR RIVER AT MOUTH NEAR FORT  
NORMAN NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE CM								ECHANTILLONS(IND.)
LOW	0124	22(0)	21(0)	31(0)	30(9)	29(0)	25(0)	31(0)	20(0)	MINIMUM
HIGH	0440	120.	71.	59.2	L5.	.6	7.5	46.8	-1.2	MAXIMUM
AVERAGE	0001	394.	212.	125.	60.	84.0	8.2	90.8	.2	MOYENNE
STD.DEV.		74.	36.	15.7	13.*	18.8		10.0		ECART-TYPE
PERCNT:10TH		138.	75.	65.0	L5.	1.0	7.7	52.0	-.8	10 <sup>e</sup> PERCNT
25TH		147.	79.	68.1	L5.	1.5	7.9	53.5	-.6	25 <sup>e</sup>
MEDIAN 50TH		167.	82.	72.8	5.	2.7	8.0	55.9	-.4	50 <sup>e</sup> MEDIANE
75TH		192.	90.	80.0	20.	7.5	8.1	59.	-.3	75 <sup>e</sup>
90TH		328.	132.	98.	33.	35.0	8.1	69.5	-.1	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0124	26(0)	26(0)	26(0)		24(0)	24(0)	31(0)	31(0)	MINIMUM
HIGH	0440	.6	3.2	14.6		0.	57.	3.5	12.0	MAXIMUM
AVERAGE		8.1	25.5	38.9		0.	111.	45.0	46.6	MOYENNE
STD.DEV.		1.0	6.7	19.77		0.	73.	9.5	18.3	ECART-TYPE
PERCNT:10TH		1.5	5.8	5.26		0.	13.	10.2	7.5	10 <sup>e</sup> PERCNT
25TH		.6	3.8	15.5		0.	63.	5.0	13.7	25 <sup>e</sup>
MEDIAN 50TH		.7	4.2	17.0		0.	65.	5.1	14.0	50 <sup>e</sup> MEDIANE
75TH		.7	4.5	17.90		0.	69.	5.4	15.9	75 <sup>e</sup>
90TH		.8	5.3	20.9		0.	76.	7.3	20.0	90 <sup>e</sup>
SECONDARY CODE		.8	14.	25.7		0.	98.	20.	23.	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0124	22(20)	29(0)		3(3)	21(19)	17(13)	26(0)	29(0)	MINIMUM
HIGH	0001	.3	.060		L.003	L.002	L.001	1.4	2.0	MAXIMUM
AVERAGE		L.5	.470		L.003	.020	.020	3.2	16.0	MOYENNE
STD.DEV.		.5*	.178			.003*	.003*	2.3	5.2	ECART-TYPE
PERCNT:10TH		.0*	.097			.004*	.005*	.4	3.2	10 <sup>e</sup> PERCNT
25TH		L.5	.09			L.002	L.001	1.9	2.0	25 <sup>e</sup>
MEDIAN 50TH		L.5	.116			L.002	L.001	2.2	3.0	50 <sup>e</sup> MEDIANE
75TH		L.5	.140		L.003	L.002	L.001	2.4	5.0	75 <sup>e</sup>
90TH		L.5	.230			L.002	L.001	2.5	6.0	90 <sup>e</sup>
SECONDARY CODE		L.5	.320			L.003	.009	2.7	10.0	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## GREAT BEAR LAKE SUB-BASIN

STATION **00NW10JC0002** LAT. **64 D 55M 0 S** LONG. **125 D 35M 0 S**UTM **10 378000E 7201000 N**  
JUN 24, 1971 TO/À NOV 05, 1975GREAT BEAR RIVER AT MOUTH NEAR FORT  
NORMAN, NORTHWEST TERRITORIES

		03301P LITHIUM EXTRBL.	05105L BORON DISSOLVED	23301P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	
	SUBM ID	LI MG/L	B MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	FE MG/L	FE MG/L	
<b>SAMPLES(FLAGS)</b>	0124	24(20)	20(4)	24(24)	24(23)	5(4)	25(18)	6(2)	25(6)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	<b>L.005</b>	<b>L.02</b>	<b>L.05</b>	<b>L.010</b>	<b>L.01</b>	<b>L.006</b>	<b>L.001</b>	<b>L.05</b>	<b>MINIMUM</b>
<b>HIGH</b>	0440	<b>.007</b>	<b>.08</b>	<b>L.05</b>	<b>L.015</b>	<b>.02</b>	<b>.06</b>	<b>.560</b>	<b>1.80</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.005*</b>	<b>.03*</b>		<b>.011*</b>	<b>.012*</b>	<b>.016*</b>	<b>.107*</b>	<b>.387*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.000*</b>	<b>.02*</b>		<b>.002*</b>	<b>.004*</b>	<b>.014*</b>	<b>.222*</b>	<b>.549*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.005</b>	<b>L.02</b>	<b>L.05</b>	<b>L.010</b>		<b>L.01</b>		<b>L.05</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.005</b>	<b>.02</b>	<b>L.0500</b>	<b>L.010</b>	<b>L.01</b>	<b>L.01</b>	<b>L.001</b>	<b>.07</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.005</b>	<b>.03</b>	<b>L.0500</b>	<b>L.010</b>	<b>L.01</b>	<b>L.010</b>	<b>.020</b>	<b>.14</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.005</b>	<b>.03</b>	<b>L.0500</b>	<b>L.010</b>	<b>L.01</b>	<b>.01</b>	<b>.040</b>	<b>.42</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.005</b>	<b>.06</b>	<b>L.05</b>	<b>L.015</b>		<b>.05</b>		<b>1.60</b>	<b>90<sup>e</sup></b>
SECONDARY CODE			02L				05P			CODE DE SECOURS

		27302P COBALT EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBL.	
	SUBM ID	CO MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	SR MG/L	
<b>SAMPLES(FLAGS)</b>	0124	25(15)	22(6)	5(1)	24(16)	5(0)	25(8)	18(13)	23(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0440	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>.05</b>	<b>MINIMUM</b>
<b>HIGH</b>	0001	<b>.007</b>	<b>.010</b>	<b>.002</b>	<b>.007</b>	<b>.076</b>	<b>.018</b>	<b>.010</b>	<b>.66</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.002*</b>	<b>.004*</b>	<b>.001*</b>	<b>.002*</b>	<b>.017</b>	<b>.005*</b>	<b>.0042*</b>	<b>.16</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.001*</b>	<b>.002*</b>	<b>.000*</b>	<b>.001*</b>	<b>.033</b>	<b>.005*</b>	<b>.0027*</b>	<b>.14</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.001</b>	<b>L.001</b>		<b>L.001</b>		<b>L.001</b>	<b>L.0005</b>	<b>.08</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.001</b>	<b>.002</b>	<b>.001</b>	<b>L.001</b>	<b>.002</b>	<b>.001</b>	<b>.0005</b>	<b>.08</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.001</b>	<b>.005*</b>	<b>.001</b>	<b>L.001</b>	<b>.002</b>	<b>.003</b>	<b>L.0050</b>	<b>.10</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.002</b>	<b>.006</b>	<b>.001</b>	<b>.002</b>	<b>.004</b>	<b>L.01</b>	<b>L.005</b>	<b>.18</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.003</b>	<b>.007</b>		<b>.002</b>		<b>.01</b>	<b>.007</b>	<b>.36</b>	<b>90<sup>e</sup></b>
SECONDARY CODE							04P	04L		CODE DE SECOURS

		42301P MOLYBDENUM EXTRBL.	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	82302P LEAD EXTRBL.	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	MO MG/L	CD MG/L	BA MG/L	PB MG/L	O2 MG/L	F MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0124	23(22)	25(15)	1(1)	24(20)	2(0)	26(1)	4(0)	4(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	<b>L.05</b>	<b>L.001</b>	<b>L.1</b>	<b>L.001</b>	<b>11.</b>	<b>L.05</b>	<b>2.</b>	<b>L.1</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.10</b>	<b>.003</b>	<b>L.1</b>	<b>.006</b>	<b>30.</b>	<b>.14</b>	<b>76.</b>	<b>65.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.06*</b>	<b>.001*</b>		<b>.002*</b>	<b>21.</b>	<b>.08*</b>	<b>39.</b>	<b>30.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.02*</b>	<b>.001*</b>		<b>.002*</b>	<b>14.</b>	<b>.02*</b>	<b>35.</b>	<b>30.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.05</b>	<b>L.001</b>		<b>L.001</b>		<b>.06</b>			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.05</b>	<b>L.001</b>		<b>L.001</b>		<b>.07</b>	<b>11.</b>	<b>5.*</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.05</b>	<b>L.001</b>		<b>L.001</b>	<b>21.</b>	<b>.08</b>	<b>40.</b>	<b>28.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.05</b>	<b>.001</b>		<b>.003*</b>		<b>.08</b>	<b>68.</b>	<b>56.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>L.10</b>	<b>.002</b>		<b>.004</b>		<b>.11</b>			<b>90<sup>e</sup></b>
SECONDARY CODE							06L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
GREAT BEAR LAKE SUB BASIN

STATION 00NW10JC0003 LAT. 64 D 58 M 5 S LONG. 125 D 27 M 5 S

UTM 10 384200E 7207000 N  
MAY 04 1976 TO/A MAY 04 1976

GREAT BEAR RIVER ABOUT 100 METRES  
ABOVE BRACKETT RIVER

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE CM								ECHANTILLONS(IND.)
LOW	0001	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)	MINIMUM
HIGH		163.	100.	90.	5.	2.1	7.5	68.	-8	MAXIMUM
AVERAGE		163.	100.	90.	5.	2.1	7.5	68.	-8	MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH										50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0402	11(0)	11(0)	11(0)	10(0)			10(0)	10(0)	MINIMUM
HIGH	0001	.7	3.9	13.8	5.1			3.3	12.4	MAXIMUM
AVERAGE		.9	6.3	35.0	11.9			15.9	21.7	MOYENNE
STD.DEV.		.8	4.5	19.49	7.1			6.3	15.1	ECART-TYPE
		.1	.7	6.91	1.8			3.6	2.6	
PERCNT:10TH		7	4.0	14.6	5.7			3.4	12.8	10 <sup>e</sup> PERCNT
25TH		.7	4.0	15.8	6.4			4.6	13.4	25 <sup>e</sup>
MEDIAN 50TH		.8	4.2	16.3	6.7			5.5	14.6	50 <sup>e</sup> MEDIANE
75TH		9	5.1	26.7	7.1			6.0	15.5	75 <sup>e</sup>
90TH		9	5.3	27.3	9.6			11.7	18.8	90 <sup>e</sup>
SECONDARY CODE		05L	05L	03L				07L	05L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0402	1(1)	1(0)		10(1)			1(0)		MINIMUM
HIGH	0001	L.5	.24		L.002			2.5		MAXIMUM
AVERAGE		L.5	.24		.13			2.5		MOYENNE
STD.DEV.					.021*					ECART-TYPE
					.039*					
PERCNT:10TH					.003*					10 <sup>e</sup> PERCNT
25TH					.004					25 <sup>e</sup>
MEDIAN 50TH					.010					50 <sup>e</sup> MEDIANE
75TH					.01					75 <sup>e</sup>
90TH					.075					90 <sup>e</sup>
SECONDARY CODE		32L	06L		01L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## GREAT BEAR LAKE SUB-BASIN

STATION **00NW10JC0003** LAT. **64 D 58 M 5 S** LONG. **125 D 27 M 5 S**UTM **10 384200 E 7207000 N**  
SEP 11, 1971 TO/À MAY 04, 1976GREAT BEAR RIVER ABOUT 100 METRES  
ABOVE BRACKETT RIVER

	SUBM ID	03301P LITHIUM EXTRBL. LI MG/L	05105L BORON DISSOLVED B MG/L	23301P VANADIUM EXTRBL. V MG/L	24302P CHROMIUM EXTRBL. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBL. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBL. FE MG/L	
SAMPLES(FLAGS)	0402					4(4)	1(1)	6(1)	1(1)	ECHANTILLONS(IND.)
LOW	0001					L.001	L.01	.004	L.05	MINIMUM
HIGH						L.001	L.01	.046	L.05	MAXIMUM
AVERAGE								.017*		MOYENNE
STD.DEV.								.016*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH						L.001		L.005		25 <sup>e</sup>
MEDIAN 50TH						L.001		.011		50 <sup>e</sup> MEDIANE
75TH						L.001		.028		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						05L		07L		CODE DE SECOURS

	SUBM ID	27302P COBALT EXTRBL. CO MG/L	28302P NICKEL EXTRBL. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBL. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBL. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBL. SR MG/L	
SAMPLES(FLAGS)	0402	1(1)	1(1)		1(1)	6(1)	1(1)			ECHANTILLONS(IND.)
LOW	0001	L.001	L.005		L.001	L.001	L.001			MINIMUM
HIGH		L.001	L.005		L.001	.395	L.001			MAXIMUM
AVERAGE						.073*				MOYENNE
STD.DEV.						.158*				ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH						.002				25 <sup>e</sup>
MEDIAN 50TH						.006				50 <sup>e</sup> MEDIANE
75TH						.027				75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE						07L				CODE DE SECOURS

	SUBM ID	42301P MOLYBDENUM EXTRBL. MO MG/L	48302P CADMIUM EXTRBL. CD MG/L	56301P BARIUM EXTRBL. BA MG/L	82302P LEAD EXTRBL. PB MG/L	08301L OXYGEN TOTAL COD O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS)	0001		1(1)	1(1)	1(1)	1(0)	1(0)	10(0)		ECHANTILLONS(IND.)
LOW	0402		L.001	L.1	L.005	33.	.09	2.		MINIMUM
HIGH			L.001	L.1	L.005	33.	.09	7.		MAXIMUM
AVERAGE								4.		MOYENNE
STD.DEV.								2.		ECART-TYPE
PERCNT:10TH								2.		10 <sup>e</sup> PERCNT
25TH								3.		25 <sup>e</sup>
MEDIAN 50TH								4.		50 <sup>e</sup> MEDIANE
75TH								5.		75 <sup>e</sup>
90TH								7.		90 <sup>e</sup>
SECONDARY CODE						06L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## GREAT BEAR LAKE SUB BASIN

STATION 01NW10JA0002 LAT 66 D 5M LONG. 118 D 3M

UTM 11 452000E 7330000 N  
JUN 03 1970 TO/A JAN 22 1974LABINE BAY RAW WATER AT MAIN  
PUMPHOUSE ECHO BAY MINE STATION 3

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0018 0440	7(0)	7(0)	6(0)	7(3)	7(0)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW		151.	76.	66.0	L5.	.1	7.5	52.0	-1.0	MINIMUM
HIGH		172.	91.	69.9	30.	12.0	8.6	57.0	.1	MAXIMUM
AVERAGE		159.	81.	68.1	9.*	3.0		53.9		MOYENNE
STD.DEV.		7.	5.	1.4	9.*	4.5		1.8		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		155.	79.	67.2	L5.	.4	7.8	52.0	-.7	25 <sup>e</sup>
MEDIAN 50TH		157.	79.	68.4	5.	.7	7.9	53.9	-.5	50 <sup>e</sup> MEDIANE
75TH		165.	81.	68.9	5.	6.1	8.0	55.3	-.5	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0018 0440	7(0)	7(0)	7(0)	4(0)	5(0)	5(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW		.7	3.6	15.0	3.4	0.	63.	3.3	12.0	MINIMUM
HIGH		.9	4.7	20.8	7.2	0.	67.	6.7	24.7	MAXIMUM
AVERAGE		.8	4.0	17.09	6.0	0.	65.	4.8	16.0	MOYENNE
STD.DEV.		.1	.4	1.94	1.8	0.	1.	1.3	4.2	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.7	3.7	16.0	5.0	0.	65.	3.8	13.8	25 <sup>e</sup>
MEDIAN 50TH		.8	4.0	16.6	6.7	0.	66.	4.4	14.3	50 <sup>e</sup> MEDIANE
75TH		.9	4.2	18.4	7.0	0.	66.	6.4	17.2	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03L 02L					04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0018 0440	2(2)	7(0)			2(2)	1(1)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW		L5	.047			L.002	L.001	1.1	2.0	MINIMUM
HIGH		L5	.160			L.002	L.001	3.0	4.0	MAXIMUM
AVERAGE			.103					2.1	2.8	MOYENNE
STD.DEV.			.044					.6	.9	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.070					1.6	2.0	25 <sup>e</sup>
MEDIAN 50TH		L5	.090			L.002		2.2	2.4	50 <sup>e</sup> MEDIANE
75TH			.150					2.6	4.0	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE			06L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
GREAT BEAR LAKE SUB-BASIN

STATION **01NW10JA0002** LAT. **66 D 5M**

LONG. **118 D 3M**

UTM **11 452000 E 7330000 N**  
JUN 03, 1970 TO/À JAN 22, 1974

LABINE BAY RAW WATER AT MAIN  
PUMPHOUSE, ECHO BAY MINE STATION 3,

		03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	23301P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	
SUBM ID										
SAMPLES(FLAGS)	0018					1(1)	3(0)	1(1)	5(1)	ECHANTILLONS(IND.)
LOW	0440					L.01	.01	L.001	L.05	MINIMUM
HIGH						L.01	.05	L.001	.61	MAXIMUM
AVERAGE							.033		.202*	MOYENNE
STD.DEV.							.021		.230*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH									.090	25 <sup>e</sup>
MEDIAN 50TH							.04		.130	50 <sup>e</sup> MEDIANE
75TH									.13	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE							04L		02L 04L	CODE DE SECOURS

		27302P COBALT EXTRBLE. CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	
SUBM ID										
SAMPLES(FLAGS)	0018	1(0)	1(0)	1(1)	3(0)	1(0)	3(0)	2(1)		ECHANTILLONS(IND.)
LOW	0440	.001	.004	L.001	.002	.002	.009	L.005		MINIMUM
HIGH		.001	.004	L.001	.055	.002	.025	.018		MAXIMUM
AVERAGE					.026		.015	.0115*		MOYENNE
STD.DEV.					.027		.009	.0092*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH					.020		.011	.0115*		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE					05L		05L			CODE DE SECOURS

		42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	82302P LEAD EXTRBLE. PB MG/L	08301L OXYGEN TOTAL COD O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SUBM ID										
SAMPLES(FLAGS)	0018	1(1)	1(1)		1(0)			1(1)	1(1)	ECHANTILLONS(IND.)
LOW		L.05	L.001		.004			L.1	L.1	MINIMUM
HIGH		L.05	L.001		.004			L.1	L.1	MAXIMUM
AVERAGE										MOYENNE
STD.DEV.										ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH										50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## GREAT BEAR LAKE SUB BASIN

STATION 01NW10JA0004 LAT 66 D 5M

LONG. 118 D 3M

UTM 11 452000E 7330000N  
JUN 23 1969 TO/A JUL 23 1974LABINE BAY RAW WATER AT DREDGE  
PUMPHOUSE ECHO BAY MINE STATION 2.

	02041L SPECIFIC CONDUCT	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	ALKALINITY TOTAL	SATURATION INDEX (CALCD.)	
	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS) 0018	14(0)	13(0)	11(0)	14(3)	14(0)	14(0)	14(0)	13(0)	ECHANTILLONS(IND.)
LOW	149.	77.	64.4	0.	.3	7.2	42.8	-1.2	MINIMUM
HIGH	191.	100.	78.	15.	5.	8.2	66.	-.2	MAXIMUM
AVERAGE	164.	85.	70.6	4.*	1.6		54.6		MOYENNE
STD.DEV.	10	7	4.9	4.*	1.5		5.1		ECART-TYPE
PERCNT:10TH	155	78	65.5	0.	.4	7.2	51.1	-1.1	10 <sup>e</sup> PERCNT
25TH	158	79	65.8	0.	.5	7.6	52.4	-.9	25 <sup>e</sup>
MEDIAN 50TH	165.	82.	70.	5.*	1.0	7.7	54.2	-.8	50 <sup>e</sup> MEDIANE
75TH	168	88	76	5.	1.5	7.8	55.	-.7	75 <sup>e</sup>
90TH	169	93	77	5.	4.5	8.0	60.	-.5	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS) 0018	14(0)	14(0)	14(0)	5(0)	14(0)	14(0)	14(0)	13(0)	ECHANTILLONS(IND.)
LOW	.6	1.7	15.8	3.5	0.	52.	3.2	12.	MINIMUM
HIGH	1.2	7.0	20.1	7.1	0.	80.	7.0	23.	MAXIMUM
AVERAGE	.9	4.5	17.71	6.2	0.	67.	5.0	16.6	MOYENNE
STD.DEV.	1	1.2	1.61	1.5	0.	6.	1.0	3.5	ECART-TYPE
PERCNT:10TH	8	3.2	15.9		0.	62.	3.7	12.	10 <sup>e</sup> PERCNT
25TH	8	4.0	16.2	6.4	0.	64.	4.6	14.	25 <sup>e</sup>
MEDIAN 50TH	.9	4.5	17.65	6.8	0.	66.	4.9	15.3	50 <sup>e</sup> MEDIANE
75TH	1.0	4.9	19.	7.0	0.	67.	5.3	19.9	75 <sup>e</sup>
90TH	1.1	5.7	20.		0.	73.	6.9	20.	90 <sup>e</sup>
SECONDARY CODE			02L 03L				06L	04L 06L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07551L NITROGEN DISSOLVED AMMONIA	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	14102L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	
	N MG/L	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	C MG/L	
SAMPLES(FLAGS) 0018	9(0)	11(0)		2(1)			12(0)	7(0)	ECHANTILLONS(IND.)
LOW	.2	.009		L.003			1.7	2.	MINIMUM
HIGH	1.1	.26		.008			10.3	6.	MAXIMUM
AVERAGE	.4	.135		.005*			3.3	2.9	MOYENNE
STD.DEV.	3	0.66		.004*			2.3	1.5	ECART-TYPE
PERCNT:10TH		07					2.1		10 <sup>e</sup> PERCNT
25TH	.3	10					2.4	2.	25 <sup>e</sup>
MEDIAN 50TH	.3	.14		.005*			2.6	2.2	50 <sup>e</sup> MEDIANE
75TH	.4	17					3.0	4.	75 <sup>e</sup>
90TH		20					4.5		90 <sup>e</sup>
SECONDARY CODE									

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## GREAT BEAR LAKE SUB-BASIN

STATION **01NW10JA0004** LAT. **66 D 5 M**LONG. **118 D 3 M**UTM **11 452000 E 7330000 N**  
JUN 23, 1969 TO/À JUL 23, 1974LABINE BAY RAW WATER AT DREDGE  
PUMPHOUSE, ECHO BAY MINE STATION 2,

	SUBM ID	03301P LITHIUM EXTRBL. LI MG/L	05105L BORON DISSOLVED B MG/L	23301P VANADIUM EXTRBL. V MG/L	24302P CHROMIUM EXTRBL. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBL. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBL. FE MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0018</b>				<b>1(1)</b>	<b>1(1)</b>	<b>10(0)</b>	<b>2(2)</b>	<b>13(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>					<b>L.011</b>	<b>L.013</b>	<b>.007</b>	<b>L.001</b>	<b>.04</b>	<b>MINIMUM</b>
<b>HIGH</b>					<b>L.011</b>	<b>L.013</b>	<b>.063</b>	<b>L.001</b>	<b>.520</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>							<b>.022</b>		<b>.116*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>							<b>.017</b>		<b>.126*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>							<b>.009</b>		<b>.04</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>							<b>.012</b>		<b>.05</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>							<b>.016</b>	<b>L.001</b>	<b>.080</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>							<b>.031</b>		<b>.120</b>	<b>75<sup>e</sup></b>
<b>90TH</b>							<b>.050</b>		<b>.13</b>	<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>									<b>02L</b>	<b>CODE DE SECOURS</b>

	SUBM ID	27302P COBALT EXTRBL. CO MG/L	28302P NICKEL EXTRBL. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBL. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBL. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBL. SR MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0018</b>									<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>9(4)</b>	<b>10(3)</b>	<b>1(1)</b>	<b>11(5)</b>	<b>1(1)</b>	<b>11(1)</b>	<b>9(0)</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>L.002</b>	<b>.002</b>	<b>L.017</b>	<b>L.001</b>	<b>L.014</b>	<b>.005</b>	<b>.008</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>L.02</b>	<b>L.03</b>	<b>L.017</b>	<b>L.017</b>	<b>L.014</b>	<b>.068</b>	<b>.18</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.007*</b>	<b>.014*</b>		<b>.007*</b>		<b>.021*</b>	<b>.0628</b>		<b>ECART-TYPE</b>
		<b>.008*</b>	<b>.009*</b>		<b>.006*</b>		<b>.019*</b>	<b>.0597</b>		
<b>PERCNT:10TH</b>			<b>.004</b>		<b>.002</b>		<b>.009</b>			<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.002</b>	<b>.008</b>		<b>.002</b>		<b>.010</b>	<b>.023</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.002</b>	<b>.012</b>		<b>.004</b>		<b>L.014</b>	<b>.032</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.005</b>	<b>L.02</b>		<b>.013</b>		<b>.02</b>	<b>.10</b>		<b>75<sup>e</sup></b>
<b>90TH</b>			<b>L.027</b>		<b>L.015</b>		<b>.05</b>			<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>01P</b>	<b>01P</b>	<b>06L</b>	<b>06P 05L</b>	<b>04L</b>	<b>04P 04L</b>	<b>04L</b>		<b>CODE DE SECOURS</b>

	SUBM ID	42301P MOLYBDENUM EXTRBL. MO MG/L	48302P CADMIUM EXTRBL. CD MG/L	56301P BARIUM EXTRBL. BA MG/L	82302P LEAD EXTRBL. PB MG/L	08301L OXYGEN TOTAL COD O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0018</b>									<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>4(4)</b>	<b>9(7)</b>		<b>11(4)</b>					<b>MINIMUM</b>
<b>HIGH</b>		<b>L.10</b>	<b>L.001</b>		<b>L.006</b>					<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>L.1</b>	<b>L.009</b>		<b>L.05</b>					<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.003*</b>		<b>.019*</b>					<b>ECART-TYPE</b>
			<b>.003*</b>		<b>.014*</b>					
<b>PERCNT:10TH</b>					<b>L.01</b>					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.10</b>	<b>.001</b>		<b>.011</b>					<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.10</b>	<b>L.002</b>		<b>.013</b>					<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.10</b>	<b>.002</b>		<b>.022</b>					<b>75<sup>e</sup></b>
<b>90TH</b>					<b>L.04</b>					<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>			<b>01P</b>		<b>01P 01L</b>					<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## GREAT BEAR LAKE SUB BASIN

LAT/LON 01NW10JA0005 LAT 65 D 37 M

LONG 118 D 8 M

STATION 11 448000: 7278000  
JAN 21 1970 TO/A AUG 21 1972HORUM LAKE 40 FEET FROM TERRA MINE  
TAILINGS EFFLUENT

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0018	4(0)	2(0)	2(0)	4(0)	4(0)	3(0)	2(0)		ECHANTILLONS(IND.)
LOW	0440	155.	77.	66.6	5.	1.0	7.5	58.9		MINIMUM
HIGH		286.	138.	100.	30.	16.0	8.1	71.3		MAXIMUM
AVERAGE		222.	107.	83.3	13.	6.0		65.1		MOYENNE
STD.DEV.		55.	44.	23.6	12.	6.8		8.8		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		182.			5.	1.8				25 <sup>e</sup>
MEDIAN 50TH		224.	107.	83.3	8.	3.5	7.9	65.1		50 <sup>e</sup> MEDIANE
75TH		263.			20.	10.3				75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0018	3(0)	3(0)	2(0)		2(0)	2(0)	2(0)	2(0)	ECHANTILLONS(IND.)
LOW	0440	2.6	2.8	19.8		0.	72.	2.3	9.5	MINIMUM
HIGH		7.8	10.5	28.7		0.	87.	12.4	29.4	MAXIMUM
AVERAGE		5.4	6.6	24.25		0.	79.	7.3	19.4	MOYENNE
STD.DEV.		2.6	3.9	6.29		0.	11.	7.1	14.1	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		5.9	6.4	24.25		0.	79.	7.3	19.4	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0018	1(0)	2(0)					2(0)	3(0)	ECHANTILLONS(IND.)
LOW	0440	.6	.068					3.0	7.0	MINIMUM
HIGH		.6	.880					3.7	9.0	MAXIMUM
AVERAGE			.474					3.3	7.7	MOYENNE
STD.DEV.			.574					.5	1.2	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH			.474					3.3	7.0	50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

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\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79  
GREAT BEAR LAKE SUB-BASIN

STATION **01NW10JA0005** LAT. **65 D 37 M**

LONG. **118 D 8 M**

UTM **11 448000 E 7278000 N**  
JAN 21, 1970 TO/À AUG 21, 1972

HOHUM LAKE 40 FEET FROM TERRA MINE  
TAILINGS EFFLUENT,

	03301P LITHIUM EXTRBL.	05105L BORON DISSOLVED	23301P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25104L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	
SUBM	LI	B	V	CR	MN	MN	FE	FE	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0440				1(1)		1(0)	3(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0018				<b>L.01</b>		<b>.080</b>	<b>.230</b>	<b>MINIMUM</b>
<b>HIGH</b>					<b>L.01</b>		<b>.080</b>	<b>2.20</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>								<b>1.510</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>								<b>1.110</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>								<b>2.10</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE								02L	CODE DE SECOURS

	27302P COBALT EXTRBL.	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	38301P STRONTIUM EXTRBL.	
SUBM	CO	NI	CU	CU	ZN	ZN	AS	SR	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0018		1(0)	2(0)	1(0)	2(0)	1(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0440		<b>.002</b>	<b>.005</b>	<b>.007</b>	<b>.004</b>	<b>4.20</b>		<b>MINIMUM</b>
<b>HIGH</b>			<b>.002</b>	<b>.012</b>	<b>.007</b>	<b>.014</b>	<b>4.20</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.009</b>		<b>.009</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>.005</b>		<b>.007</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				<b>.009</b>		<b>.009</b>			<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE				05L		05L			CODE DE SECOURS

	42301P MOLYBDENUM EXTRBL.	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	82302P LEAD EXTRBL.	08301L OXYGEN TOTAL COD	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
SUBM	MO	CD	BA	PB	O2	F			
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0440						1(0)	1(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>							<b>4.</b>	<b>L1.</b>	<b>MINIMUM</b>
<b>HIGH</b>							<b>4.</b>	<b>L1.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>									<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960 79  
GREAT BEAR LAKE SUB BASIN

STATION **01NW10JA0009** LAT **66 D 5M** LONG. **118 D 2M**

UTM **11 454000E 7330000 N**  
MAY 25, 1973 TO/A JUN 11, 1974

FRESHWATER INTAKE (FOR MILL) AT  
MAIN PUMPHOUSE ON NORTH SHORE OF

		92041L SPECIFIC CONDUCT	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00213L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0018	9(0)	9(0)	6(0)	9(0)	9(0)	9(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW		143.	73.	68.0	0.	.2	7.7	48.6	-8	MINIMUM
HIGH		167.	86.	76.	15.	1.8	8.3	57.	-4	MAXIMUM
AVERAGE		156.	80.	71.3	4.	.8		53.4		MOYENNE
STD.DEV.		7	4	3.1	5.	.5		2.3		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		152	78	69.	0.	.5	7.8	53.	-8	25 <sup>e</sup>
MEDIAN 50TH		158.	79.	70.5	5.	.6	7.9	53.	-7	50 <sup>e</sup> MEDIANE
75TH		160.	82	74.	5.	1.2	7.9	54.	-5	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0018	9(0)	9(0)	9(0)	3(0)	6(0)	6(0)	9(0)	9(0)	ECHANTILLONS(IND.)
LOW		.6	3.9	14.8	6.4	0.	59.	4.5	12.	MINIMUM
HIGH		.9	4.5	19.	6.8	0.	69.	5.6	17.	MAXIMUM
AVERAGE		.8	4.1	17.00	6.6	0.	65.	4.9	14.1	MOYENNE
STD.DEV.		.1	.2	1.16	.2	0.	4.	.3	2.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.8	4.0	16.8		0.	65.	4.7	12.9	25 <sup>e</sup>
MEDIAN 50TH		.8	4.1	17.	6.6	0.	65.	4.7	13.	50 <sup>e</sup> MEDIANE
75TH		.8	4.2	17.3		0.	68.	5.0	16.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE				03L				06L	04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	14102L SILICA REACTIVE SiO2 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0018	7(0)	7(0)		1(1)	1(1)		8(0)	4(0)	ECHANTILLONS(IND.)
LOW		.1	.08		L.003	L.003		2.2	2.	MINIMUM
HIGH		.5	.18		L.003	L.003		2.8	4.	MAXIMUM
AVERAGE		.3	.141					2.4	2.5	MOYENNE
STD.DEV.		1	.037					.2	1.0	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		1	10					2.2	2.0	25 <sup>e</sup>
MEDIAN 50TH		.3	.15					2.5	2.0	50 <sup>e</sup> MEDIANE
75TH		4	17					2.5	3.0	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## GREAT BEAR LAKE SUB-BASIN

STATION **01NW10JA0009** LAT. **66 D 5M** LONG. **118 D 2M**UTM **11 454000E 7330000 N**  
MAY 25, 1973 TO/À JUN 11, 1974FRESHWATER INTAKE (FOR MILL) AT  
MAIN PUMPHOUSE ON NORTH SHORE OF

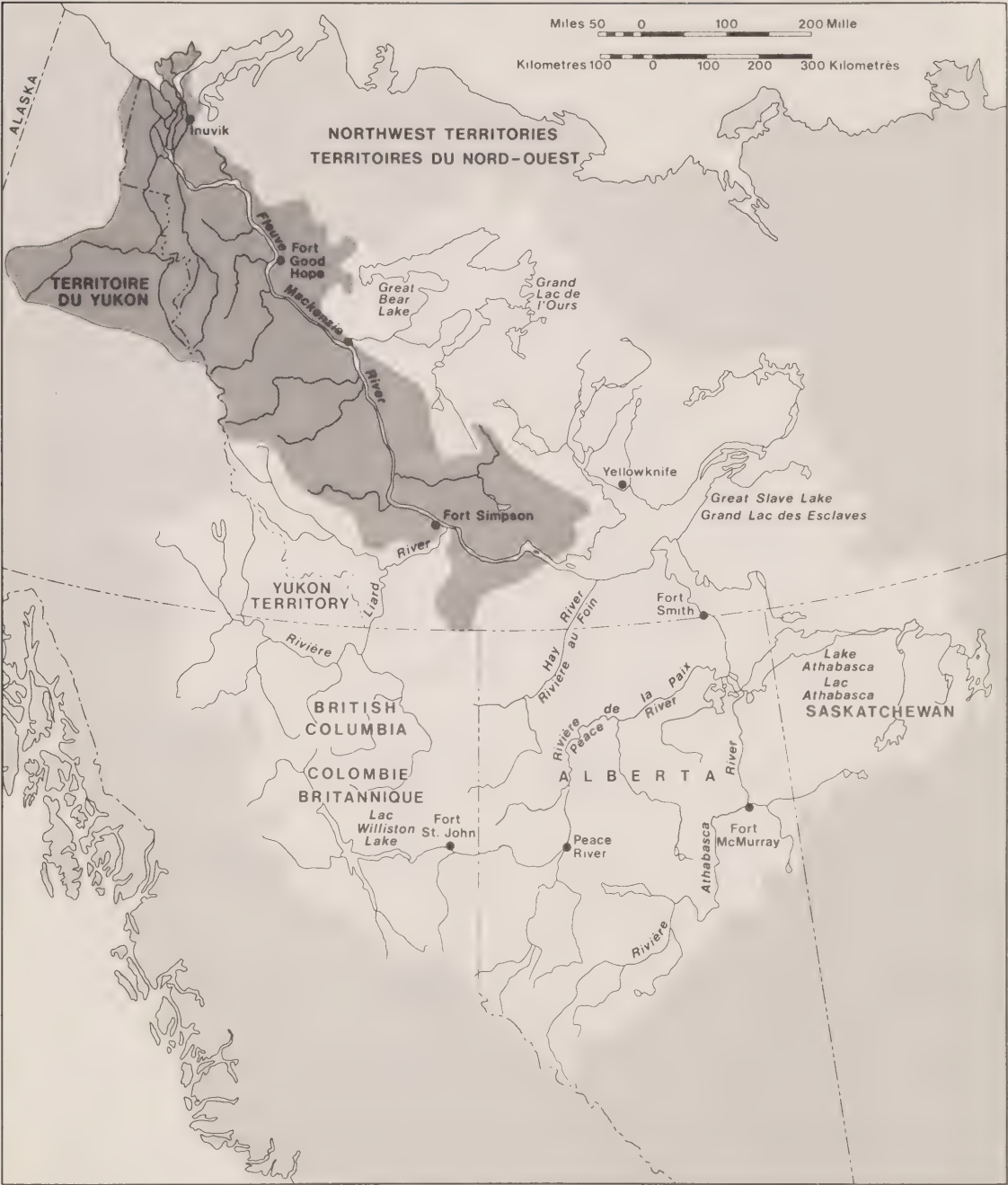
SUBM ID	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	23301P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	25104L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	
SAMPLES(FLAGS) 0018				1(1)	1(1)	9(6)		9(4)	ECHANTILLONS(IND.)
LOW				L.011	L.013	L.008		L.04	MINIMUM
HIGH				L.011	L.013	.017		.16	MAXIMUM
AVERAGE						.011*		.071*	MOYENNE
STD.DEV.						.003*		.043*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH						L.010		.04	25 <sup>e</sup>
MEDIAN 50TH						L.010		L.05	50 <sup>e</sup> MEDIANE
75TH						L.013		L.08	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

SUBM ID	27302P COBALT EXTRBLE. CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBLE. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	
SAMPLES(FLAGS) 0018	8(6)	9(5)	1(1)	9(7)	1(1)	9(5)	8(4)		ECHANTILLONS(IND.)
LOW	L.001	.003	L.017	L.001	L.014	L.002	.0005		MINIMUM
HIGH	L.02	L.03	L.017	.028	L.014	L.014	.010		MAXIMUM
AVERAGE	.007*	.011*		.009*		.007*	.0046*		MOYENNE
STD.DEV.	.008*	.011*		.009*		.004*	.0036*		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.002	L.004		L.001		.004	.0021		25 <sup>e</sup>
MEDIAN 50TH	.003	.006		L.006		L.007	L.0040		50 <sup>e</sup> MEDIANE
75TH	L.012	L.02		L.015		L.010	L.0070		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	01P	01P	06L	06P	04L	04P	04L		CODE DE SECOURS

SUBM ID	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	82302P LEAD EXTRBLE. PB MG/L	08301L OXYGEN TOTAL COD O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS) 0018	3(3)	8(7)		9(3)					ECHANTILLONS(IND.)
LOW	L.10	L.001		.005					MINIMUM
HIGH	L.10	L.009		L.05					MAXIMUM
AVERAGE		.003*		.018*					MOYENNE
STD.DEV.		.003*		.016*					ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.001		.009					25 <sup>e</sup>
MEDIAN 50TH	L.1	L.002		.010					50 <sup>e</sup> MEDIANE
75TH		.004*		.018					75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE		01P		01P					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives







# MACKENZIE RIVER

# WATER QUALITY STATIONS : ALPHABETICAL INDEX

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
ARCTIC RED RIVER ABOUT 1.5 MILES FROM MOUTH, NORTHWEST TERRITORIES	00NW10LA0004	67	26	0	133	46	0	995
ARCTIC RED RIVER AT W.S.C. GAUGE ABOVE MARTIN HOUSE, NORTHWEST TERRITORIES	00NW10LA0006	66	47	10	133	6	0	998
BLACKWATER RIVER AT MOUTH, NORTHWEST TERRITORIES	00NW10HC0005	63	57	0	124	9	0	981
DALE CREEK AT ACCESS RD TO AMAX MINE, MACMILLAN PASS. DINA STATION-MACPASS NO.1. NORTHWEST TERRITORIES.	00NW10HA0009	63	16		130	6		974
ENGINEER CREEK AT DEMPSTER HWY. BRIDGE 0.5 KM ABOVE CONFLUENCE WITH OGILVIE R STATION 8. DEMPSTER HWY. YUKON TERRITORY.	00YT10MA0008	65	21	35	138	17	30	1030
ENGINEER CREEK 22.8 KM SOUTH OF CONFLUENCE WITH OGILVIE RIVER. STATION 13.DEMPSTER HIGHWAY. YUKON TERRITORY.	00YT10MA0012	65	9	35	138	22	10	1034
HARE INDIAN RIVER NEAR THE MOUTH, NORTHWEST TERRITORIES	00NW10LD0002	66	18		128	34		1012
HARRIS RIVER ABOUT 0.25 MILE FROM MOUTH, NORTHWEST TERRITORIES	00NW10GC0004	61	52	30	121	18	30	953
HARRIS RIVER ABOUT 0.5 MILE FROM MOUTH, NORTHWEST TERRITORIES	00NW10GC0003	61	52	30	121	18	0	951
HORN RIVER NEAR MOUTH, NORTHWEST TERRITORIES	00NW10FC0001	61	32	0	117	57	30	939
KEELE RIVER ABOUT 4 MILES FROM MOUTH, NORTHWEST TERRITORIES	00NW10HA0001	64	23	15	124	53	0	965
MACKENZIE RIVER ABOUT 2.5 MILES ABOVE FORT GOOD HOPE, NORTHWEST TERRITORIES	00NW10LB0002	66	14	30	128	43	0	999
MACKENZIE RIVER ABOVE ARTIC RED RIVER NORTHWEST TERRITORIES	00NW10LA0003	67	21	30	133	33	30	992
MACKENZIE RIVER AT FORT GOOD HOPE, NORTHWEST TERRITORIES	00NW10LD0001 97900S001	66	15	30	128	38	0	1010
MACKENZIE RIVER AT NORMAN WELLS, NORTHWEST TERRITORIES	00NW10KA0001 97900S001	65	16	54	126	50	57	983
MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	00NW10LC0012	68	18	0	133	46	30	1009
MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	00NW10LC0011	68	29	0	133	49	30	1008



# WATER QUALITY STATIONS : ALPHABETICAL INDEX

# MACKENZIE RIVER

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	00NW10LC0009	68	57	30	134	37	0	1006
MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	00NW10LC0010	68	38	0	134	4	0	1007
MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	00NW10LC0005	68	22	30	133	46	0	1003
MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	00NW10LC0008	69	11	30	134	14	30	1005
MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	00NW10LC0006	68	21	0	133	43	30	1004
MACKENZIE RIVER MAIN CHANNEL, NORTHWEST TERRITORIES	00NW10MC0005	68	38	0	134	11	0	1022
MACKENZIE RIVER NEAR FORT PROVIDENCE, NORTHWEST TERRITORIES	00NW10FB0001	61	15	0	118	3	0	933
MACKENZIE RIVER NEAR FORT SIMPSON, NORTHWEST TERRITORIES	00NW10GC0001	61	52		121	20		946
MACKENZIE RIVER NEAR WRIGLEY, NORTHWEST TERRITORIES	00NW10HC0001 97900S001	63	16	0	123	36	0	979
MACKENZIE RIVER WEST CHANNEL, NORTHWEST TERRITORIES	00NW10MC0004	68	25	0	135	25	30	1021
MACKENZIE RIVER WEST CHANNEL, NORTHWEST TERRITORIES	00NW10MC0003	68	37	30	135	43	30	1020
MACKENZIE RIVER 20 MILES UPSTREAM FROM NORMAN WELLS, NORTHWEST TERRITORIES	00NW10KA0003	65	7		126	17		987
MACKENZIE RIVER 300 METRES UPSTREAM FROM JUNCTION OF MACKENZIE AND LIARD RIVERS, NORTHWEST TERRITORIES	00NW10FB0005	61	51	5	121	16	10	938
MACKENZIE RIVER, 14.5 MILES ABOVE NORMAN WELLS, NORTHWEST TERRITORIES	00NW10KA0002	65	10	0	126	25	0	985
MARTIN RIVER ABOUT 0.5 MILE UPSTREAM FROM MOUTH, NORTHWEST TERRITORIES	00NW10GC0007	61	55	0	121	35	0	956
MARTIN RIVER ABOUT 1.5 MILES UPSTREAM FROM MOUTH, NORTHWEST TERRITORIES	00NW10GC0006	61	54	30	121	35	30	955
MARTIN RIVER AT DOWNSTREAM EDGE OF POOL ABOUT 400 METRES UPSTREAM FROM BRIDGE CROSSING, NORTHWEST TERRITORIES	00NW10GC0009	61	52	55	121	36	50	958
MARTIN RIVER AT DOWNSTREAM EDGE OF POOL BETWEEN BRIDGE CROSSING AND ROAD SLASH, NORTHWEST TERRITORIES	00NW10GC0010	61	53	5	121	37	5	959

# MACKENZIE RIVER

# WATER QUALITY STATIONS : ALPHABETICAL INDEX

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
MARTIN RIVER AT UPSTREAM EDGE OF POOL ABOUT 400 METRES DOWNSTREAM FROM BRIDGE CROSSING, NORTHWEST TERRITORIES	00NW10GC0013	61	53	30	121	36	45	961
MARTIN RIVER AT UPSTREAM EDGE OF POOL ABOUT 400 METRES UPSTREAM FROM BRIDGE CROSSING, NORTHWEST TERRITORIES	00NW10GC0008	61	52	55	121	36	50	957
MARTIN RIVER AT UPSTREAM EDGE OF POOL BETWEEN BRIDGE CROSSING AND ROAD SLASH, NORTHWEST TERRITORIES	00NW10GC0011	61	53	0	121	37	5	960
MOUNTAIN RIVER ABOUT 3 MILES FROM MOUTH, NORTHWEST TERRITORIES	00NW10KC0002	65	40	0	128	54	0	988
NAPOIAK CHANNEL OF MACKENZIE RIVER, NORTHWEST TERRITORIES	00NW10MC0007	68	36	30	134	56	30	1023
NORTH NAHANNI RIVER ABOUT 5 MILES FROM MOUTH, NORTHWEST TERRITORIES	00NW10GD0001	62	10	30	123	23	0	962
OGILVIE RIVER 0.5 KM UPSTREAM OF CONFLUENCE WITH ENGINEER CREEK. STATION 11-12. DEMPSTER HIGHWAY. YUKON TERRITORY.	00YT10MA0011	65	21	30	138	18	20	1032
OGILVIE RIVER 31.5 KM NNE FROM CONFLUENCE WITH ENGINEER CREEK. STATION 1. DEMPSTER HIGHWAY. YUKON TERRITORY.	00YT10MA0002	65	38	50	138	7	30	1026
OGILVIE RIVER 4.1 KM NNE OF CONFLUENCE WITH ENGINEER CREEK. STATION 6. DEMPSTER HIGHWAY. YUKON TERRITORY.	00YT10MA0006	65	23	45	138	15	55	1028
PEEL RIVER ABOVE FORT MCPHERSON, NORTHWEST TERRITORIES	00NW10MC0001 97900S002	67	13	15	134	56	45	1014
PEEL RIVER AT FORT MCPHERSON, NORTHWEST TERRITORIES	00NW10MC0002	67	26	0	134	53	30	1017
PEEL RIVER AT W.S.C. GAUGE ABOVE CANYON CREEK, YUKON TERRITORY	00YT10MA0001 97900S001	65	53	39	136	2	9	1024
RABBITSKIN RIVER AT BOTTOM OF THE FIRST RIFFLE ABOUT 0.75 MILE UPSTREAM FROM MOUTH, NORTHWEST TERRITORIES	00NW10FB0003	61	47		120	39		936
RAMPARTS RIVER ABOUT 2.5 MILES FROM MOUTH, NORTHWEST TERRITORIES	00NW10KD0001	66	10	0	129	6	30	990
REDSTONE RIVER AT MOUTH, NORTHWEST TERRITORIES	00NW10HB0004	64	16	0	124	34	30	976
RENGLENG RIVER AT DOWNSTREAM JUNCTION OF DEMSTER HWY RE-CHANNELIZATION, NORTHWEST TERRITORIES	00NW10LC0002	67	45	25	133	52	35	1002

## WATER QUALITY STATIONS : ALPHABETICAL INDEX

## MACKENZIE RIVER

Location Description	Station Number Station Parameters	Latitude			Longitude			Page
		°	'	"	°	'	"	
RENGLENG RIVER AT UPSTREAM JUNCTION OF DEMSTER HWY RE-CHANNELIZATION, NORTHWEST TERRITORIES	00NW10LC0001	67	45	25	133	52	0	1001
TRAIL RIVER ABOUT 0.5 MILE UPSTREAM FROM MOUTH, NORTHWEST TERRITORIES	00NW10GC0002	62	6	0	122	11	30	949
TROUT RIVER ABOUT 2 MILES FROM MOUTH, NORTHWEST TERRITORIES	00NW10FA0002	61	17	0	119	51	0	927
TROUT RIVER AT FORT SIMPSON HWY, NORTHWEST TERRITORIES	00NW10FA0003 97900S002	61	8	0	119	49	30	930
TROUT RIVER NEAR OUTLET OF TROUT LAKE, NORTHWEST TERRITORIES	00NW10FA0001 97900S001	60	46	0	121	6	30	925
TSICHU RIVER AT NORTH CANOL ROAD CROSSING, AMAX MINE, MACMILLAN PASS, DINA STATION-MACPASS NO.5, NORTHWEST TERRITORIES.	00NW10HA0007	63	18		129	48		970
TSICHU RIVER, AT CIRQUE CREEK AT AMAX MINE, ABOVE CONFLUENCE WITH MACMILLAN PASS, DINA STATION-MACPASS NO.3, NORTHWEST TERRITORIES.	00NW10HA0006	63	17		130	3		968
UNNAMED CREEK AT NORTH CANOL ROAD CROSSING, AMAX MINE, MACMILLAN PASS, DINA STATION-MACPASS NO.2, NORTHWEST TERRITORIES.	00NW10HA0008	63	16		130	0		972
WILLOW LAKE RIVER AT W.S.C. GAUGE ABOVE MOUTH, NORTHWEST TERRITORIES	00NW10GB0003	62	39	10	122	54	50	945
WILLOW LAKE RIVER NEAR THE MOUTH, NORTHWEST TERRITORIES	00NW10GB0002 97900S001	62	38	51	122	54	15	942

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10FA0001** LAT. **60 D 46 M 0 S** LONG. **121 D 6 M 30 S**UTM **10 603000 E 6738000 N**

JUL 30, 1969 TO/À MAY 18, 1972

TROUT RIVER NEAR OUTLET OF TROUT LAKE,  
NORTHWEST TERRITORIES

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b> 0001	8(0)	5(0)	7(0)	8(0)	8(0)	7(0)	7(0)	5(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0440	<b>146.</b>	<b>76.</b>	<b>75.9</b>	<b>5.</b>	<b>.9</b>	<b>7.9</b>	<b>61.4</b>	<b>-.5</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>450.</b>	<b>239.</b>	<b>203.</b>	<b>80.</b>	<b>18.0</b>	<b>8.4</b>	<b>186.</b>	<b>.5</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>240.</b>	<b>122.</b>	<b>115.4</b>	<b>27.</b>	<b>6.2</b>		<b>103.1</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>103.</b>	<b>66.</b>	<b>47.8</b>	<b>23.</b>	<b>5.9</b>		<b>44.7</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>180.</b>	<b>94.</b>	<b>86.9</b>	<b>15.</b>	<b>1.6</b>	<b>7.9</b>	<b>79.3</b>	<b>-.2</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>197.</b>	<b>100.</b>	<b>93.8</b>	<b>23.</b>	<b>4.7</b>	<b>8.0</b>	<b>84.1</b>	<b>-.1</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>287.</b>	<b>100.</b>	<b>162.</b>	<b>28.</b>	<b>9.2</b>	<b>8.1</b>	<b>144.</b>	<b>-.1</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b> 0001	6(0)	7(0)	6(0)		7(0)	7(0)	7(0)	7(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0440	<b>.6</b>	<b>1.5</b>	<b>26.1</b>		<b>0.</b>	<b>75.</b>	<b>.7</b>	<b>6.7</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>1.4</b>	<b>14.8</b>	<b>55.3</b>		<b>1.</b>	<b>227.</b>	<b>8.3</b>	<b>32.8</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.9</b>	<b>5.7</b>	<b>33.35</b>		<b>0.</b>	<b>126.</b>	<b>3.0</b>	<b>14.4</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.3</b>	<b>4.7</b>	<b>10.90</b>		<b>0.</b>	<b>54.</b>	<b>3.3</b>	<b>10.2</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.6</b>	<b>2.5</b>	<b>28.2</b>		<b>0.</b>	<b>97.</b>	<b>.7</b>	<b>7.3</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.8</b>	<b>2.9</b>	<b>29.50</b>		<b>0.</b>	<b>103.</b>	<b>1.0</b>	<b>9.8</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.1</b>	<b>7.8</b>	<b>31.5</b>		<b>0.</b>	<b>174.</b>	<b>7.1</b>	<b>24.7</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS TOTAL ORTHO PO4	15313F PHOSPHORUS TOTAL INORG. PO4	15363L PHOSPHORUS TOTAL INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	
<b>SAMPLES(FLAGS)</b> 0001		8(2)		7(6)	2(1)	3(2)		7(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0440		<b>L.005</b>		<b>L.002</b>	<b>L.002</b>	<b>L.001</b>		<b>2.5</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>1.20</b>		<b>.004</b>	<b>.007</b>	<b>.006</b>		<b>6.2</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.193*</b>		<b>.002*</b>	<b>.004*</b>	<b>.003*</b>		<b>3.99</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.413*</b>		<b>.001*</b>	<b>.004*</b>	<b>.003*</b>		<b>1.30</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.007*</b>		<b>L.002</b>				<b>2.7</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.010</b>		<b>L.002</b>	<b>.004*</b>	<b>L.001</b>		<b>3.7</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.150</b>		<b>L.002</b>				<b>5.1</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE				57L	14L				CODE DE SECOURS

MACKENZIE RIVER BASIN 1960-1979

MACKENZIE RIVER SUB BASIN

STATION 00NW10FA0001 LAT 60 D 46 M 0 S LONG 121 D 6 M 30 S

STIM 10 603000 6738000  
JUL 30 1969 TO/A MAY 18 1972

TROUT RIVER NEAR OUTLET OF TROUT LAKE  
NORTHWEST TERRITORIES

		36001L CARBON TOTAL ORGANIC C MG/L	08102S OXYGEN DISSOLVED DO O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	03301P LITHIUM EXTRBL. LI MG/L	05105L BORON DISSOLVED B MG/L	23301P VANADIUM EXTRBL. V MG/L	24102P CHROMIUM EXTRBL. CR MG/L	27102P COBALT EXTRBL. CO MG/L	
SAMPLES(FLAGS)	0001	6(0)		7(2)						ECHANTILLONS(IND.)
LOW	0440	6.0		L.05						MINIMUM
HIGH		26.		.09						MAXIMUM
AVERAGE		11.7		.06						MOYENNE
STD.DEV.		7.4		.02						ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		6.0		L.05						25 <sup>e</sup>
MEDIAN 50TH		10.5		.06						50 <sup>e</sup> MEDIANE
75TH		11.0		.08						75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBL. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBL. FE MG/L	28302P NICKEL EXTRBL. NI MG/L	29305P COPPER EXTRBL. CU MG/L	30305P ZINC EXTRBL. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0001	4(4)	2(2)	8(0)			2(2)	2(2)		ECHANTILLONS(IND.)
LOW	0440	L.01	L.01	.010			L.01	L.01		MINIMUM
HIGH		L.01	L.01	.070			L.01	L.01		MAXIMUM
AVERAGE				.021						MOYENNE
STD.DEV.				.021						ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.010		.010						25 <sup>e</sup>
MEDIAN 50TH		L.010	L.01	.010			L.010	L.010		50 <sup>e</sup> MEDIANE
75TH		L.010		.025						75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		04L	04L				06L	04L		CODE DE SECOURS

		38301P STRONTIUM EXTRBL. SR MG/L	42301P MOLYBDENUM EXTRBL. MO MG/L	48302P CADMIUM EXTRBL. CD MG/L	56301P BARIUM EXTRBL. BA MG/L	80311P MERCURY EXTRBL. HG UG/L	82302P LEAD EXTRBL. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS)	0001						2(2)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW							L.01	13.	13.	MINIMUM
HIGH							L.01	37.	34.	MAXIMUM
AVERAGE								24.	20.	MOYENNE
STD.DEV.								10.	9.	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH								17.	15.	25 <sup>e</sup>
MEDIAN 50TH							L.010	23.	17.	50 <sup>e</sup> MEDIANE
75TH								31.	26.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE							01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10FA0002** LAT. **61 D 17 M 0 S** LONG. **119 D 51 M 0 S**UTM **11 347000E 6797000 N**  
JUN 19, 1971 TO/À NOV 03, 1973TROUT RIVER ABOUT 2 MILES FROM MOUTH,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>0440</b>	<b>12(0)</b>	<b>10(0)</b>	<b>14(0)</b>	<b>14(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>14(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0124</b>	<b>131.</b>	<b>72.</b>	<b>69.0</b>	<b>5.</b>	<b>.8</b>	<b>7.6</b>	<b>61.4</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>734.</b>	<b>376.</b>	<b>322.</b>	<b>70.</b>	<b>650.</b>	<b>8.3</b>	<b>279.</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>255.</b>	<b>124.</b>	<b>102.6</b>	<b>28.</b>	<b>49.1</b>		<b>89.6</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>203.</b>	<b>90.</b>	<b>64.1</b>	<b>18.</b>	<b>173.0</b>		<b>55.3</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>147.</b>	<b>77.</b>	<b>73.3</b>	<b>5.</b>	<b>1.0</b>	<b>7.8</b>	<b>66.2</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>156.</b>	<b>86.</b>	<b>80.2</b>	<b>15.</b>	<b>1.5</b>	<b>7.8</b>	<b>70.7</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>173.</b>	<b>93.</b>	<b>84.3</b>	<b>30.</b>	<b>1.8</b>	<b>8.2</b>	<b>73.8</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>204.</b>	<b>120.</b>	<b>91.7</b>	<b>30.</b>	<b>4.0</b>	<b>8.3</b>	<b>81.7</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>633.</b>	<b>254.</b>	<b>110.</b>	<b>50.</b>	<b>10.0</b>	<b>8.3</b>	<b>100.</b>		<b>90<sup>e</sup></b>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0440</b>	<b>21(0)</b>	<b>21(0)</b>	<b>23(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>12(0)</b>	<b>23(1)</b>	<b>14(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0402</b>	<b>.6</b>	<b>1.5</b>	<b>21.6</b>	<b>1.9</b>	<b>0.</b>	<b>75.</b>	<b>.0</b>	<b>5.8</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0124</b>	<b>2.2</b>	<b>23.6</b>	<b>95.6</b>	<b>22.8</b>	<b>0.</b>	<b>340.</b>	<b>13.2</b>	<b>58.4</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.9</b>	<b>5.2</b>	<b>33.02</b>	<b>5.6</b>	<b>0.</b>	<b>110.</b>	<b>2.2*</b>	<b>15.1</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.4</b>	<b>6.1</b>	<b>19.44</b>	<b>5.7</b>	<b>0.</b>	<b>73.</b>	<b>3.3*</b>	<b>14.3</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.6</b>	<b>2.2</b>	<b>22.9</b>	<b>2.1</b>	<b>0.</b>	<b>81.</b>	<b>L.3</b>	<b>6.1</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.7</b>	<b>2.3</b>	<b>24.5</b>	<b>2.9</b>	<b>0.</b>	<b>86.</b>	<b>.7</b>	<b>7.9</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.8</b>	<b>2.7</b>	<b>27.8</b>	<b>4.0</b>	<b>0.</b>	<b>90.</b>	<b>.8</b>	<b>9.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.9</b>	<b>3.7</b>	<b>30.2</b>	<b>4.8</b>	<b>0.</b>	<b>95.</b>	<b>1.6</b>	<b>16.8</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>1.5</b>	<b>10.4</b>	<b>38.0</b>	<b>8.9</b>	<b>0.</b>	<b>102.</b>	<b>7.5</b>	<b>29.2</b>	<b>90<sup>e</sup></b>
SECONDARY CODE		05L	05L	03L 01F				07L	04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07307L NITROGEN DISSOLVED NITRATE	07551L NITROGEN DISSOLVED AMMONIA	07652L NITROGEN DISSOLVED	07902L NITROGEN PARTICUL.	14102L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	
	SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	SIO2 MG/L	SI MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0440</b>	<b>11(2)</b>	<b>14(3)</b>			<b>9(0)</b>		<b>14(0)</b>	<b>9(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0124</b>	<b>L.5</b>	<b>L.001</b>			<b>.11</b>		<b>2.6</b>	<b>.60</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0402</b>	<b>.7</b>	<b>.540</b>			<b>.66</b>		<b>7.8</b>	<b>2.21</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.6*</b>	<b>.129*</b>			<b>.34</b>		<b>4.31</b>	<b>1.81</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.1*</b>	<b>.168*</b>			<b>.19</b>		<b>1.28</b>	<b>.49</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.5</b>	<b>L.005</b>					<b>3.4</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.5</b>	<b>.010</b>			<b>.20</b>		<b>3.6</b>	<b>1.83</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.5</b>	<b>.030</b>			<b>.30</b>		<b>3.90</b>	<b>1.86</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.6</b>	<b>.180</b>			<b>.41</b>		<b>4.9</b>	<b>2.08</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.7</b>	<b>.370</b>					<b>5.7</b>		<b>90<sup>e</sup></b>
SECONDARY CODE			06F 06L							CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10FA0002 LAT. 61 D 17M 0 S LONG. 119 D 51M 0 S

UTM 11 347000E 6797000 N

JUN 19 1971 TO/A NOV 03 1973

TROUT RIVER ABOUT 2 MILES FROM MOUTH  
NORTHWEST TERRITORIES

SUBM ID		15103L	15255L	15313F	15356L	15403L	06001L	06051L	08101F	
		PHOSPHORUS	PHOSPHORUS	PHOSPHORUS	PHOSPHORUS	PHOSPHATE	CARBON	CARBON	OXYGEN	
		TOTAL	DISSOLVED	TOTAL	DISSOLVED	TOTAL	TOTAL	TOTAL	DISSOLVED	
		DISSOLVED	ORTHOPHOSPHATE	INORG. PO4	INORG. PO4	PO4	ORGANIC	INORGANIC	DO	
		P	P	P	P	PO4	C	C	O2	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0440	9(0)	11(10)	3(0)			14(0)	14(0)	9(0)	ECHANTILLONS(IND.)
LOW	0402	.009	L.002	.003			2.0	8.0	5.8	MINIMUM
HIGH	0124	.107	.004	.004			42.0	53.0	15.0	MAXIMUM
AVERAGE		.024	.002*	.003			14.6	16.3	10.4	MOYENNE
STD.DEV.		.031	.001*	.001			9.3	10.9	2.6	ECART-TYPE
PERCNT:10TH			L.002				7.0	11.0		10 <sup>e</sup> PERCNT
25TH		.011	L.002				11.0	13.0	9.2	25 <sup>e</sup>
MEDIAN 50TH		.014	L.002	.003			13.0	13.0	9.6	50 <sup>e</sup> MEDIANE
75TH		.017	L.002				16.0	15.0	11.6	75 <sup>e</sup>
90TH			L.002				23.0	20.0		90 <sup>e</sup>
SECONDARY CODE		01L	55F	13L					02S	CODE DE SECOURS

SUBM ID		05105L	03301P	23301P	24302P	25101L	25304P	26102L	26304P	
		BORON	LITHIUM	VANADIUM	CHROMIUM	MANGANESE	MANGANESE	IRON	IRON	
		DISSOLVED	EXTRBL.	EXTRBL.	EXTRBL.	DISSOLVED	EXTRBL.	DISSOLVED	EXTRBL.	
		B	LI	V	CR	MN	MN	FE	FE	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0402	7(1)	11(9)	11(10)	11(10)	10(6)	11(4)	11(0)	12(2)	ECHANTILLONS(IND.)
LOW	0124	L.02	L.005	L.05	L.010	L.001	L.01	.020	L.05	MINIMUM
HIGH	0440	.09	.007	.10	.014	.022	.50	.100	4.60	MAXIMUM
AVERAGE		.05*	.005*	.0545*	.010*	.006*	.058*	.052	.534*	MOYENNE
STD.DEV.		.02*	.001*	.0151*	.001*	.007*	.147*	.027	1.289*	ECART-TYPE
PERCNT:10TH			L.005	L.05	L.010	L.001	L.01	.020	L.05	10 <sup>e</sup> PERCNT
25TH		.03	L.005	L.05	L.010	L.001	L.01	.023	.090	25 <sup>e</sup>
MEDIAN 50TH		.05	L.005	L.05	L.010	.003	.01	.06	.110	50 <sup>e</sup> MEDIANE
75TH		.06	L.005	L.05	L.010	L.01	.02	.07	.240	75 <sup>e</sup>
90TH			.005	L.05	L.010	.016	.02	.08	.60	90 <sup>e</sup>
SECONDARY CODE		02L				05L 07L 04L		04L 07L		CODE DE SECOURS

SUBM ID		28101L	28302P	29105L	29305P	30105L	30304P	33103L	33303L	
		NICKEL	NICKEL	COPPER	COPPER	ZINC	ZINC	ARSENIC	ARSENIC	
		DISSOLVED	EXTRBL.	DISSOLVED	EXTRBL.	DISSOLVED	EXTRBL.	DISSOLVED	EXTRBL.	
		NI	NI	CU	CU	ZN	ZN	AS	AS	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0440	1(0)	10(6)	9(2)	11(5)	9(1)	11(4)	9(2)		ECHANTILLONS(IND.)
LOW	0124	.009	L.001	L.001	L.001	L.001	L.001	L.005		MINIMUM
HIGH	0402	.009	.009	.010	.009	.015	.120	.016		MAXIMUM
AVERAGE			.002*	.004*	.002*	.006*	.015*	.0083*		MOYENNE
STD.DEV.			.003*	.003*	.002*	.006*	.035*	.0034*		ECART-TYPE
PERCNT:10TH			L.001		L.001		L.001			10 <sup>e</sup> PERCNT
25TH			L.001	.002	L.001	.001	L.001	.007		25 <sup>e</sup>
MEDIAN 50TH			L.001	.002	.001	.002	.004	.008		50 <sup>e</sup> MEDIANE
75TH			.003	.005	.004	.011	.01	.008		75 <sup>e</sup>
90TH			.007		.004		.011			90 <sup>e</sup>
SECONDARY CODE		02P		07L		07L	05P			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10FA0002** LAT. **61 D 17 M 0 S** LONG. **119 D 51 M 0 S**UTM **11 347000E 6797000 N**  
MAR 28, 1972 TO/A NOV 03, 1973TROUT RIVER ABOUT 2 MILES FROM MOUTH,  
NORTHWEST TERRITORIES

	SUBM ID	27302P COBALT EXTRBL. CO MG/L	34301P SELENIUM EXTRBL. SE MG/L	38301P STRONTIUM EXTRBL. SR MG/L	42301P MOLYBDENUM EXTRBL. MO MG/L	47301P SILVER EXTRBL. AG MG/L	48103L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBL. CD MG/L	56301P BARIUM EXTRBL. BA MG/L	
SAMPLES(FLAGS)	0124	11(3)		11(0)	11(11)		7(7)	11(8)		ECHANTILLONS(IND.)
LOW	0402	L.001		.03	L.05		L.001	L.001		MINIMUM
HIGH		.007		.15	L.05		L.001	.007		MAXIMUM
AVERAGE		.002*		.07				.002*		MOYENNE
STD.DEV.		.002*		.03				.002*		ECART-TYPE
PERCNT:10TH		L.001		.05	L.05			L.001		10 <sup>e</sup> PERCNT
25TH		L.001		.05	L.05		L.001	L.001		25 <sup>e</sup>
MEDIAN 50TH		.001		.05	L.05		L.001	L.001		50 <sup>e</sup> MEDIANE
75TH		.003		.07	L.05		L.001	.001		75 <sup>e</sup>
90TH		.003		.09	L.05			.002		90 <sup>e</sup>
SECONDARY CODE		02L			01L					CODE DE SECOURS

	SUBM ID	74301P TUNGSTEN EXTRBL. W MG/L	80311P MERCURY EXTRBL. HG UG/L	81302P THALLIUM EXTRBL. TL MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBL. PB MG/L	09105L FLUORIDE DISSOLVED F MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS)	0124		1(0)		9(6)	11(9)	12(7)	12(3)	3(1)	ECHANTILLONS(IND.)
LOW	0402		.07		L.001	L.001	L.05	L.1.	L.1.	MINIMUM
HIGH	0440		.07		.002	.004	.11	15.	11.	MAXIMUM
AVERAGE					.002*	.001*	.06*	5.*	7.*	MOYENNE
STD.DEV.					.001*	.001*	.02*	5.*	6.*	ECART-TYPE
PERCNT:10TH						L.001	L.05	L.1.		10 <sup>e</sup> PERCNT
25TH					L.001	L.001	L.05	1.*		25 <sup>e</sup>
MEDIAN 50TH					L.002	L.001	L.05	3.	10.	50 <sup>e</sup> MEDIANE
75TH					L.002	L.001	.06	9.		75 <sup>e</sup>
90TH						.002	.08	12.		90 <sup>e</sup>
SECONDARY CODE					04L					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10FA0003 LAT. 61 D 8 M 0 S LONG. 119 D 49 M 30 S

UTM 11 347900E 6780700N  
FEB 22 1973 TO/A OCT 29 1974TROUT RIVER AT FORT SIMPSON HWY  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	(CALCD.) MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0124	6(0)	11(0)	16(0)	16(0)	16(0)	11(0)	16(0)		ECHANTILLONS(IND.)
LOW		115.	78.	71.6	10.	.3	7.8	59.0		MINIMUM
HIGH		545.	404.	324.	80.	17.0	8.4	292.		MAXIMUM
AVERAGE		321.	142.	145.6	30.	2.5		130.0		MOYENNE
STD.DEV.		183.	108.	90.0	18.	3.9		82.4		ECART-TYPE
PERCNT:10TH			79.	73.0	10.	.6	7.9	63.0		10 <sup>e</sup> PERCNT
25TH		198.	81.	78.6	15.	.9	8.0	70.1		25 <sup>e</sup>
MEDIAN 50TH		263.	87.	92.2	30.	1.7	8.0	80.8		50 <sup>e</sup> MEDIANE
75TH		540.	167.	233.0	38.	2.5	8.2	209.0		75 <sup>e</sup>
90TH			288.	309.	55.	2.9	8.2	281.		90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0124	22(0)	22(0)	22(0)	12(0)	12(0)	12(0)	21(0)	16(0)	ECHANTILLONS(IND.)
LOW	0402	.5	1.8	18.0	1.5	0.	77.	.0	4.3	MINIMUM
HIGH		2.1	28.5	103.	16.2	0.	356.	30.5	66.7	MAXIMUM
AVERAGE		1.0	7.0	41.11	6.8	0.	154.	4.2	22.2	MOYENNE
STD.DEV.		.5	8.7	25.55	5.5	0.	105.	7.2	22.4	ECART-TYPE
PERCNT:10TH		.6	2.0	24.3	2.6	0.	79.	.2	4.6	10 <sup>e</sup> PERCNT
25TH		.7	2.1	25.4	2.9	0.	85.	.9	7.1	25 <sup>e</sup>
MEDIAN 50TH		.8	2.4	27.65	4.0	0.	95.	1.1	9.5	50 <sup>e</sup> MEDIANE
75TH		1.0	6.4	46.0	11.8	0.	214.	2.4	41.0	75 <sup>e</sup>
90TH		1.8	19.0	78.0	15.2	0.	343.	10.9	65.7	90 <sup>e</sup>
SECONDARY CODE		05L	05L	01F 03L				06L 07L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07307L NITROGEN DISSOLVED NITRATE	07551L NITROGEN DISSOLVED AMMONIA	07652L NITROGEN DISSOLVED	07902L NITROGEN PARTICUL.	14102L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	
	SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	SiO2 MG/L	SI MG/L	
SAMPLES(FLAGS)	0402	13(5)	15(5)			5(0)		16(0)	5(0)	ECHANTILLONS(IND.)
LOW	0124	L.5	L.001			.27		3.5	.11	MINIMUM
HIGH		2.3	1.04			.74		8.4	2.40	MAXIMUM
AVERAGE		.7*	.186*			.44		5.31	1.71	MOYENNE
STD.DEV.		.5*	.272*			.18		1.60	.92	ECART-TYPE
PERCNT:10TH		L.5	L.001					3.6		10 <sup>e</sup> PERCNT
25TH		L.5	L.001			.36		4.10	1.94	25 <sup>e</sup>
MEDIAN 50TH		.5	.090			.38		4.80	1.94	50 <sup>e</sup> MEDIANE
75TH		.6	.300			.45		6.70	2.16	75 <sup>e</sup>
90TH		.6	.360					7.9		90 <sup>e</sup>
SECONDARY CODE		02L	06L 06F							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10FA0003** LAT. **61 D 8 M 0 S** LONG. **119 D 49 M 30 S**UTM **11 347900E 6780700 N**

JUL 12, 1971 TO/À OCT 29, 1974

TROUT RIVER AT FORT SIMPSON HWY,  
NORTHWEST TERRITORIES

	SUBM ID	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO P04	15313F PHOSPHORUS TOTAL INORG. P04	15356L PHOSPHORUS DISSOLVED INORG. P04	15403L PHOSPHATE TOTAL	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08101F OXYGEN DISSOLVED DO O2	
		P MG/L	P MG/L	P MG/L	P MG/L	P04 MG/L	C MG/L	C MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0124	6(0)	15(9)	14(4)	2(2)		16(0)	16(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0402	.002	L.002	L.003	L.003		2.0	8.0	8.7	<b>MINIMUM</b>
<b>HIGH</b>		.028	.009	.028	L.003		21.0	53.0	11.4	<b>MAXIMUM</b>
<b>AVERAGE</b>		.009	.003*	.008*			11.6	22.1	10.0	<b>MOYENNE</b>
<b>STD.DEV.</b>		.010	.002*	.007*			4.0	13.9	1.1	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			L.002	L.003			8.0	8.0		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.003	L.002	L.003			9.5	12.0	9.2	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.003	L.003	.005	L.003		11.0	15.5	9.9	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.013	.004	.010			13.5	30.0	10.7	<b>75<sup>e</sup></b>
<b>90TH</b>			.006	.020			15.0	47.0		<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		01L	55F 56L	13L						<b>CODE DE SECOURS</b>

	SUBM ID	05105L BORON DISSOLVED	03301P LITHIUM EXTRBLE.	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	
		B MG/L	LI MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	FE MG/L	FE MG/L	
<b>SAMPLES(FLAGS)</b>	0124	16(0)	16(9)	15(15)	16(16)	3(1)	16(10)	3(2)	16(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0402	.04	L.005	L.05	L.010	L.001	L.01	.031	.04	<b>MINIMUM</b>
<b>HIGH</b>		.17	.024	L.05	L.015	.050	.020	L.05	.49	<b>MAXIMUM</b>
<b>AVERAGE</b>		.09	.009*			.019*	.011*	.044*	.123*	<b>MOYENNE</b>
<b>STD.DEV.</b>		.04	.007*			.027*	.003*	.011*	.108*	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.04	L.005	L.05	L.010		L.01		L.05	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.06	L.005	L.05	L.010		L.010		.060	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.09	L.005	L.05	L.010	.005	L.010	L.05	.095	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.14	.013	L.05	L.010		.010		.145	<b>75<sup>e</sup></b>
<b>90TH</b>		.15	.023	L.05	L.015		.02		.19	<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>						07L 05L		07L 04L		<b>CODE DE SECOURS</b>

	SUBM ID	28101L NICKEL DISSOLVED	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30304P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	33303L ARSENIC EXTRBLE.	
		NI MG/L	NI MG/L	CU MG/L	MG/L	ZN MG/L	ZN MG/L	AS MG/L	AS MG/L	
<b>SAMPLES(FLAGS)</b>	0124		16(1)	2(1)	16(7)	1(0)	16(4)	12(9)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0402		L.001	.007	L.001	.019	L.001	L.0005		<b>MINIMUM</b>
<b>HIGH</b>			.008	L.064	.003	.019	.08	.010		<b>MAXIMUM</b>
<b>AVERAGE</b>			.005*	.035*	.002*		.009*	.0040*		<b>MOYENNE</b>
<b>STD.DEV.</b>			.002*	.040*	.001*		.019*	.0029*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			.002		L.001		L.001	L.0005		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			.003		L.001		.001	L.0005		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			.004	.035*	.001		.003	L.0050		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			.007		.002		.007	.0050*		<b>75<sup>e</sup></b>
<b>90TH</b>			.007		.003		.010	.006		<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>				07L		07L	05P	04L		<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10FA0003 LAT. 61 D 8 M 0 S LONG. 119 D 49 M 30 S

UTM 11 347900E 6780700 N  
FEB 22 1973 TO/A OCT 29 1974TROUT RIVER AT FORT SIMPSON HWY  
NORTHWEST TERRITORIES

	27302P COBALT EXTRBL.	34301P SELENIUM EXTRBL.	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48103L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	
SUBM ID	CO MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	BA MG/L	
SAMPLES(FLAGS)	0124 16(7)		16(2)	15(15)		1(1)	16(8)	1(1)	ECHANTILLONS(IND.)
LOW	0402 L.001		L.01	L.05		L.001	L.001	L.1	MINIMUM
HIGH	.006		.41	L.10		L.001	.003	L.1	MAXIMUM
AVERAGE	.002*		.13*				.001*		MOYENNE
STD.DEV.	.001*		.13*				.001*		ECART-TYPE
PERCNT:10TH	L.001		L.02	L.05			L.001		10 <sup>e</sup> PERCNT
25TH	L.001		.04	L.05			L.001		25 <sup>e</sup>
MEDIAN 50TH	.002		.06	L.05			.001*		50 <sup>e</sup> MEDIANE
75TH	.003		.26	L.05			.002		75 <sup>e</sup>
90TH	.004		.36	L.10			.003		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	74301P TUNGSTEN EXTRBL.	80311P MERCURY EXTRBL.	81302P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR	
SUBM ID	W MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124 6(4)			1(1)	15(10)	14(6)	5(0)		ECHANTILLONS(IND.)
LOW	0402 L.05			L.002	L.001	L.05	2.		MINIMUM
HIGH	.08			L.002	.010	.19	14.		MAXIMUM
AVERAGE	.06*				.003*	.08*	5.		MOYENNE
STD.DEV.	.01*				.003*	.05*	5.		ECART-TYPE
PERCNT:10TH					L.001	L.05			10 <sup>e</sup> PERCNT
25TH		L.05			L.001	L.05	3.		25 <sup>e</sup>
MEDIAN 50TH		L.05			L.001	.06	3.		50 <sup>e</sup> MEDIANE
75TH		.07			.005	.13	4.		75 <sup>e</sup>
90TH					.006	.15			90 <sup>e</sup>
SECONDARY CODE				041					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10FB0001** LAT. **61 D 15M 0 S** LONG. **118 D 3M 0 S**UTM **11 444000E 6791000 N**  
JUL 26, 1960 TO/À OCT 11, 1979MACKENZIE RIVER NEAR FORT PROVIDENCE,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0124 0001	59(0) 161.	55(0) 82.	57(0) 77.3	71(1) L5.	71(0) .4	63(0) 6.6	65(0) 27.7	54(0) -1.3	MINIMUM
HIGH	0056	815.	200.	164.	100.	38.	8.5	131.	.4	MAXIMUM
AVERAGE		252.	134.	110.0	22.*	8.9		86.1		MOYENNE
STD.DEV.		82.	22.	19.0	17.*	8.1		17.0		ECART-TYPE
PERCNT:10TH		208.	111.	92.4	5.	2.7	7.7	69.7	-.4	10 <sup>e</sup> PERCNT
25TH		221.	120.	98.0	10.	3.6	7.8	76.5	-.1	25 <sup>e</sup>
MEDIAN 50TH		238.	129.	106.	20.	5.1	8.0	81.0	.0	50 <sup>e</sup> MEDIANE
75TH		265.	143.	119.	25.	13.	8.1	94.0	.2	75 <sup>e</sup>
90TH		303.	168.	143.	40.	20.0	8.3	109.	.4	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001 0402	86(0) .6	86(0) 2.2	84(0) 24.0	50(0) 2.9	57(0) 0.	57(0) 34.	85(0) .3	71(0) 8.7	MINIMUM
HIGH	0124	8.7	18.0	49.9	10.2	2.	160.	18.8	90.	MAXIMUM
AVERAGE	0056	1.3	7.1	32.11	6.5	0.	104.	7.0	25.3	MOYENNE
STD.DEV.		.8	1.8	5.87	1.7	0.	21.	3.1	9.3	ECART-TYPE
PERCNT:10TH		1.0	5.2	26.3	4.1	0.	84.	2.6	20.5	10 <sup>e</sup> PERCNT
25TH		1.1	6.2	27.65	5.8	0.	93.	4.6	22.0	25 <sup>e</sup>
MEDIAN 50TH		1.2	7.2	30.75	6.5	0.	102.	7.5	23.3	50 <sup>e</sup> MEDIANE
75TH		1.3	7.7	35.00	7.4	0.	114.	8.4	26.	75 <sup>e</sup>
90TH		1.6	8.4	41.5	8.8	0.	128.	9.2	32.0	90 <sup>e</sup>
SECONDARY CODE		05L 01L	05L 01L	03L 01F 02L				06L 07L 01L	06L 04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07307L NITROGEN DISSOLVED NITRATE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07652L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	14102L SILICA REACTIVE SiO2 MG/L	14201L SILICON SOL. ORTHO SILICATE Si MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0124 0402	38(24) L.1	58(6) L.001	7(0) .000	14(6) L.1	18(0) .08	4(0) .05	71(0) .1	15(0) .48	MINIMUM
HIGH	0001	3.0	.520	.362	.5	.55	.17	6.7	1.60	MAXIMUM
AVERAGE	0056	.6*	.084*	.090	.2*	.29	.085	3.31	1.19	MOYENNE
STD.DEV.		.5*	.100*	.125	.1*	.14	.057	1.05	.29	ECART-TYPE
PERCNT:10TH		.4	L.01		L.1	.09		2.2	.70	10 <sup>e</sup> PERCNT
25TH		L.5	.018	.000	L.1	.22	.055	2.8	1.12	25 <sup>e</sup>
MEDIAN 50TH		L.5	.042	.045	.1	.26	.060	3.25	1.20	50 <sup>e</sup> MEDIANE
75TH		.5	.120	.090	.2	.38	.115	3.8	1.36	75 <sup>e</sup>
90TH		.9	.220		.4	.50		4.8	1.46	90 <sup>e</sup>
SECONDARY CODE		02L	06L 06F		51L			01L 05L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10FB0001 LAT. 61 D 15M 0 S LONG. 118 D 3M 0 S

UTM 11 444000E 6791000 N  
JAN 27 1968 TO/A OCT 11 1979MACKENZIE RIVER NEAR FORT PROVIDENCE  
NORTHWEST TERRITORIES

		15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15313F PHOSPHORUS TOTAL INORG. PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15403L PHOSPHATE TOTAL PO4 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	
SAMPLES(FLAGS)	0001	22(3)	36(25)	20(5)	3(3)		37(1)	37(0)	15(0)	ECHANTILLONS(IND.)
LOW	0402	.001	L.002	L.002	L.003		L.0	5.0	6.2	MINIMUM
HIGH	0056	.022	.008	.039	L.003		19.5	35.	14.6	MAXIMUM
AVERAGE	0124	.010*	.003*	.011*			7.3*	15.3	10.9	MOYENNE
STD.DEV.		.007*	.002*	.010*			3.6*	5.2	2.3	ECART-TYPE
PERCNT:10TH		L.003	L.002	L.002			4.0	9.0	6.9	10 <sup>e</sup> PERCNT
25TH		.004	L.002	.004*			5.0	12.0	9.3	25 <sup>e</sup>
MEDIAN 50TH		.009	L.002	.008	L.003		6.0	14.0	11.5	50 <sup>e</sup> MEDIANE
75TH		.013	.003	.015			9.0	18.0	12.4	75 <sup>e</sup>
90TH		.020	.005	.026			12.0	22.0	13.5	90 <sup>e</sup>
SECONDARY CODE		01L	57L 56L 55F	14L 13L					01P 02S	CODE DE SECOURS

		05105L BORON DISSOLVED B MG/L	03301P LITHIUM EXTRBL. LI MG/L	23301P VANADIUM EXTRBL. V MG/L	24302P CHROMIUM EXTRBL. CR MG/L	25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBL. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBL. FE MG/L	
SAMPLES(FLAGS)	0124	31(1)	31(13)	33(29)	40(39)	25(20)	54(36)	28(9)	53(3)	ECHANTILLONS(IND.)
LOW	0402	L.02	L.005	.001	L.010	L.001	L.01	L.001	L.05	MINIMUM
HIGH	0001	.10	.016	.06	L.015	.110	.07	.11	1.00	MAXIMUM
AVERAGE	0056	.05*	.006*	.0459*	.011*	.011*	.016*	.033*	.264*	MOYENNE
STD.DEV.		.02*	.002*	.0144*	.002*	.021*	.012*	.029*	.225*	ECART-TYPE
PERCNT:10TH		.03	L.005	L.05	L.010	L.001	L.01	L.001	.06	10 <sup>e</sup> PERCNT
25TH		.03	L.005	L.05	L.010	L.001	L.01	.010	.11	25 <sup>e</sup>
MEDIAN 50TH		.04	.005	L.05	L.010	L.010	L.010	.021	.18	50 <sup>e</sup> MEDIANE
75TH		.06	.005	L.05	L.010	L.010	.02	.050*	.37	75 <sup>e</sup>
90TH		.06	.006	L.05	L.015	L.010	.03	.080	.63	90 <sup>e</sup>
SECONDARY CODE		02L		02P		05L 07L 04L	03L 04L	04L 07L 01L	01L	CODE DE SECOURS

		28101L NICKEL DISSOLVED NI MG/L	28302P NICKEL EXTRBL. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBL. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30304P ZINC EXTRBL. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	33303L ARSENIC EXTRBL. AS MG/L	
SAMPLES(FLAGS)	0001	1(1)	42(17)	15(7)	50(11)	14(7)	49(16)	28(16)		ECHANTILLONS(IND.)
LOW	0124	L.002	L.001	L.001	L.001	L.001	L.001	L.0005		MINIMUM
HIGH	0402	L.002	.010	L.064	L.01	.010	.075	.016		MAXIMUM
AVERAGE	0056		.004*	.010*	.003*	.005*	.010*	.0049*		MOYENNE
STD.DEV.			.002*	.015*	.002*	.004*	.017*	.0039*		ECART-TYPE
PERCNT:10TH			L.001	.002	L.001	L.001	L.001	L.0005		10 <sup>e</sup> PERCNT
25TH			L.002	.003	.001	.001	.002	.0006		25 <sup>e</sup>
MEDIAN 50TH			.004	.005	.002	.004	.004	L.0050		50 <sup>e</sup> MEDIANE
75TH			L.005	.010	.004	L.01	L.01	.0055		75 <sup>e</sup>
90TH			.006	.014	.007	L.01	.025	.009		90 <sup>e</sup>
SECONDARY CODE			01P	07L 06L	.06L	04L 07L	05P 04L	04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10FB0001** LAT. **61 D 15 M 0 S** LONG. **118 D 3 M 0 S**UTM **11 444000E 6791000 N**  
AUG 06, 1969 TO/A OCT 11, 1979MACKENZIE RIVER NEAR FORT PROVIDENCE,  
NORTHWEST TERRITORIES

		27302P COBALT EXTRBLE. CO MG/L	34301P SELENIUM EXTRBLE. SE MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	48103L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	
SAMPLES(FLAGS)	0402	45(27)		33(0)	40(38)		10(10)	45(34)	15(13)	ECHANTILLONS(IND.)
LOW	0124	L.001		.06	L.05		L.001	L.001	L.0	MINIMUM
HIGH	0056	.009		.26	.23		L.001	.039	L.1	MAXIMUM
AVERAGE	0001	.002*		.14	.06*			.002*	.1*	MOYENNE
STD.DEV.		.001*		.05	.03*			.006*	0*	ECART-TYPE
PERCNT:10TH		L.001		.10	L.05		L.001	L.001	L.0	10 <sup>e</sup> PERCNT
25TH		L.001		.11	L.05		L.001	L.001	L.0	25 <sup>e</sup>
MEDIAN 50TH		.001		.12	L.05		L.001	L.001	.1	50 <sup>e</sup> MEDIANE
75TH		.002		.15	.05*		L.001	L.001	L.1	75 <sup>e</sup>
90TH		.003		.22	L.10		L.001	.002	L.1	90 <sup>e</sup>
SECONDARY CODE							01L			CODE DE SECOURS

		74301P TUNGSTEN EXTRBLE. W MG/L	80311P MERCURY EXTRBLE. HG UG/L	81302P THALLIUM EXTRBLE. TL MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBLE. PB MG/L	09105L FLUORIDE DISSOLVED F MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG L	
SAMPLES(FLAGS)	0001		7(6)		14(12)	49(40)	53(7)	50(1)	28(10)	ECHANTILLONS(IND.)
LOW	0124		L.05		L.001	L.001	L.05	L.1	L.1	MINIMUM
HIGH	0402		.09		L.05	L.01	.22	41.	33.	MAXIMUM
AVERAGE	0056		.06*		.016*	.003*	.09*	9.*	5.*	MOYENNE
STD.DEV.			.02*		.023*	.003*	.03*	9.*	8.*	ECART-TYPE
PERCNT:10TH					L.001	L.001	.06	2.	L.1	10 <sup>e</sup> PERCNT
25TH			L.05		.001	L.001	.07	4.	L.1	25 <sup>e</sup>
MEDIAN 50TH			L.05		L.002	.002	.08	6.	3.	50 <sup>e</sup> MEDIANE
75TH			L.05		L.05	.004	.10	11.	6.	75 <sup>e</sup>
90TH					L.05	.006	.13	22.	13.	90 <sup>e</sup>
SECONDARY CODE					04L 01L	01L	04L 02L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10FB0003 LAT 61 47 N

LONG 120 39 W

UTM 10 624000 6852000

JUL 01, 1971 TO/A SEP 09 1971

RABBITSKIN RIVER AT BOTTOM OF THE  
FIRST RIFFLE ABOUT 0.75 MILE UPSTREAM

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE, CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0440	5(0)		5(0)	5(0)	5(0)	5(0)	5(0)		ECHANTILLONS(IND.)
LOW		239.		99.2	20.	1.8	7.8	79.7		MINIMUM
HIGH		257.		118.	70.	18.0	8.1	102.		MAXIMUM
AVERAGE		249.		113.4	53.	5.5		96.6		MOYENNE
STD.DEV.		7.		8.1	22.	7.0		9.5		ECART-TYPE
PERCNT:10TH										10 <sup>th</sup> PERCNT
25TH		246.		114.	40.	1.9	7.9	99.4		25 <sup>th</sup>
MEDIAN 50TH		249.		118.	65.	2.5	8.0	99.8		50 <sup>th</sup> MEDIANE
75TH		253.		118.	70.	3.5	8.1	102.		75 <sup>th</sup>
90TH										90 <sup>th</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0440	28(0)	27(0)	33(0)	28(0)	5(0)	5(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	0402	.6	4.6	20.8	5.7	0.	97.	2.3	16.9	MINIMUM
HIGH		4.7	63.3	113.	34.5	0.	124.	8.3	22.8	MAXIMUM
AVERAGE		1.3	9.5	34.05	10.0	0.	118.	4.2	20.9	MOYENNE
STD.DEV.		.9	11.2	16.53	5.5	0.	12.	2.5	2.5	ECART-TYPE
PERCNT:10TH		.7	4.6	25.1	6.5					10 <sup>th</sup> PERCNT
25TH		.8	5.3	26.4	6.9	0.	121.	2.3	19.9	25 <sup>th</sup>
MEDIAN 50TH		.9	6.6	30.1	8.5	0.	122.	3.1	22.3	50 <sup>th</sup> MEDIANE
75TH		1.3	8.9	33.6	10.7	0.	124.	5.0	22.7	75 <sup>th</sup>
90TH		2.2	15.8	50.9	14.1					90 <sup>th</sup>
SECONDARY CODE		05L	05L	03L						CODE DE SECOURS

		07001L NITROGEN TOTAL	07105L NITROGEN DISSOLVED	15103L PHOSPHORUS TOTAL	15255L PHOSPHORUS DISSOLVED	15313F PHOSPHORUS TOTAL	15363L PHOSPHORUS DISSOLVED	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	
SAMPLES(FLAGS)	0402		5(2)	28(1)						ECHANTILLONS(IND.)
LOW	0440		L.005	L.003						MINIMUM
HIGH			.840	.044						MAXIMUM
AVERAGE			.176*	.020*						MOYENNE
STD.DEV.			.371*	.009*						ECART-TYPE
PERCNT:10TH				.009						10 <sup>th</sup> PERCNT
25TH			L.005	.016						25 <sup>th</sup>
MEDIAN 50TH			.010	.018						50 <sup>th</sup> MEDIANE
75TH			.020	.023						75 <sup>th</sup>
90TH				.033						90 <sup>th</sup>
SECONDARY CODE				01L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10FB0003** LAT. **61 D 47M**LONG. **120 D 39M**UTM **10 624000 E 6852000 N**  
JUL 01, 1971 TO/A SEP 17, 1973RABBITSKIN RIVER AT BOTTOM OF THE  
FIRST RIFFLE ABOUT 0.75 MILE UPSTREAM

		06001L CARBON TOTAL ORGANIC C MG/L	08102S OXYGEN DISSOLVED DO O2 MG/L	09105L FLUORIDE DISSOLVED F MG/L	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	23301P VANADIUM EXTRBLE. V MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS)	0440	5(0)	25(0)							ECHANTILLONS(IND.)
LOW	0402	2.0	.2							MINIMUM
HIGH		21.0	12.8							MAXIMUM
AVERAGE		13.2	8.5							MOYENNE
STD.DEV.		8.3	2.4							ECART-TYPE
PERCNT:10TH			6.1							10 <sup>e</sup> PERCNT
25TH		7.0	8.0							25 <sup>e</sup>
MEDIAN 50TH		16.0	8.4							50 <sup>e</sup> MEDIANE
75TH		20.0	10.0							75 <sup>e</sup>
90TH			11.2							90 <sup>e</sup>
SECONDARY CODE			01F							CODE DE SECOURS

		25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0402	5(5)		21(1)						ECHANTILLONS(IND.)
LOW	0440	L.01		.020						MINIMUM
HIGH		L.01		1.31						MAXIMUM
AVERAGE				.269*						MOYENNE
STD.DEV.				.295*						ECART-TYPE
PERCNT:10TH				.040						10 <sup>e</sup> PERCNT
25TH		L.01		.13						25 <sup>e</sup>
MEDIAN 50TH		L.01		.21						50 <sup>e</sup> MEDIANE
75TH		L.01		.26						75 <sup>e</sup>
90TH				.440						90 <sup>e</sup>
SECONDARY CODE		04L		04L 07L						CODE DE SECOURS

		38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	80311P MERCURY EXTRBLE. HG UG/L	82302P LEAD EXTRBLE. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS)	0402							27(3)		ECHANTILLONS(IND.)
LOW								L1.		MINIMUM
HIGH								32.		MAXIMUM
AVERAGE								7.*		MOYENNE
STD.DEV.								8.*		ECART-TYPE
PERCNT:10TH								L1		10 <sup>e</sup> PERCNT
25TH								2.		25 <sup>e</sup>
MEDIAN 50TH								3.		50 <sup>e</sup> MEDIANE
75TH								9.		75 <sup>e</sup>
90TH								22.		90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## MACKENZIE RIVER SUB BASIN

STATION 00NW10FB0005 LAT 61 D 51M 5 S LONG. 121 D 16M 10 S

UTM 10 591200E 6858600N

MAY 26 1971 TO/A OCT 04 1973

MACKENZIE RIVER 300 METRES UPSTREAM  
FROM JUNCTION OF MACKENZIE AND LIARD

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3	02075S TURBIDITY LIGHT PENETR. SECCHI DSC	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED P	08101F OXYGEN DISSOLVED DO O2	14201L SILICON SOL ORTHO SILICATE SI	
SUBM	USE CM	MG L	M	PH UNITS	N MG L	MG L	MG L	MG L	
SAMPLES(FLAGS)	0402	21(0)	27(0)	27(0)	26(0)	26(2)	23(0)	26(0)	ECHANTILLONS(IND.)
LOW		105.	76.9	.21	7.4	.08	5.5	.48	MINIMUM
HIGH		293.	121.0	1.00	8.3	.67	15.8	2.17	MAXIMUM
AVERAGE		221.	96.5	.55		.34	10.5	1.33	MOYENNE
STD.DEV.		38.	10.0	.22		.17	2.2	.34	ECART-TYPE
PERCNT:10TH		180.	83.4	.27	7.8	.14	8.0	.74	10 <sup>e</sup> PERCNT
25TH		215.	89.6	.40	7.9	.24	9.6	1.24	25 <sup>e</sup>
MEDIAN 50TH		225.	95.9	.55	8.1	.28	10.2	1.38	50 <sup>e</sup> MEDIANE
75TH		235.	101.2	.67	8.2	.50	12.1	1.43	75 <sup>e</sup>
90TH		260.	113.5	.82	8.3	.53	13.4	1.62	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19105L POTASSIUM DISSOLVED K	11105L SODIUM DISSOLVED NA	20103L CALCIUM DISSOLVED CA	12102L MAGNESIUM DISSOLVED MG	06202F BICARBONT. LAB CALG. HC03	17207L CHLORIDE DISSOLVED CL	16305L SULPHATE DISSOLVED SO4	13105L ALUMINUM DISSOLVED AL	
SUBM	MG L	MG L	MG L	MG L	MG L	MG L	MG L	MG L	
SAMPLES(FLAGS)	0402	27(0)	27(0)	27(0)	27(0)	21(0)	21(0)	1(0)	ECHANTILLONS(IND.)
LOW		.6	6.1	21.3	4.1	89.	3.4	16.7	MINIMUM
HIGH		1.5	9.7	36.9	8.3	201.	20.5	34.0	MAXIMUM
AVERAGE		1.2	7.4	27.67	6.7	115.	8.3	23.4	MOYENNE
STD.DEV.		.2	.8	3.11	.9	25.	4.1	4.2	ECART-TYPE
PERCNT:10TH		1.1	6.5	24.3	5.9	92.	5.7	18.3	10 <sup>e</sup> PERCNT
25TH		1.1	6.8	25.7	6.2	98.	6.4	21.4	25 <sup>e</sup>
MEDIAN 50TH		1.2	7.3	27.6	6.7	107.	7.0	22.4	50 <sup>e</sup> MEDIANE
75TH		1.3	7.8	28.6	7.1	131.	8.5	24.5	75 <sup>e</sup>
90TH		1.4	8.5	32.5	7.9	144.	9.8	28.9	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	25105L MANGANESE DISSOLVED MN	26104L IRON DISSOLVED FE	29107L COPPER DISSOLVED CU	30107L ZINC DISSOLVED ZN	33105L ARSENIC DISSOLVED AS	48103L CADMIUM DISSOLVED CD	82104L LEAD DISSOLVED PB	10401L RESIDUE NONFILTR.	
SUBM	MG L	MG L	MG L	MG L	MG L	MG L	MG L	MG L	
SAMPLES(FLAGS)	0402	18(14)	18(3)	16(2)	14(1)	1(1)	14(14)	15(8)	ECHANTILLONS(IND.)
LOW		L.001	.011	.003	L.001	L.04	L.001	L.001	MINIMUM
HIGH		.020	.17	L.064	.035	L.04	L.001	L.207	MAXIMUM
AVERAGE		.003*	.083*	.016*	.006*		.017*		MOYENNE
STD.DEV.		.005*	.045*	.019*	.009*		.053*		ECART-TYPE
PERCNT:10TH		L.001	.021	.004	.002		L.001	L.001	10 <sup>e</sup> PERCNT
25TH		L.001	L.05	.006	.002		L.001	L.001	25 <sup>e</sup>
MEDIAN 50TH		L.001	.070	.010	.004		L.001	.001	50 <sup>e</sup> MEDIANE
75TH		L.001	.12	.014	.005		L.001	.002	75 <sup>e</sup>
90TH		.010	.14	L.064	.007		L.001	.030	90 <sup>e</sup>
SECONDARY CODE		07L	07L					04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10FC0001 LAT. 61 D 32M 0 S LONG. 117 D 57M 30 S

UTM 11 449000E 6822400 N  
JAN 06, 1972 TO/À OCT 29, 1974HORN RIVER NEAR MOUTH,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM									
SAMPLES(FLAGS)	0124	15(0)	20(0)	23(0)	24(0)	24(0)	20(0)	24(0)	20(0)	ECHANTILLONS(IND.)
LOW		289.	150.	95.8	5.	.8	7.5	52.0	-6	MINIMUM
HIGH		2714.	1590.	704.	120.	20.0	8.5	386.	1.5	MAXIMUM
AVERAGE		923.	490.	232.7	61.	6.6		142.8		MOYENNE
STD.DEV.		721.	380.	146.8	29.	5.3		84.7		ECART-TYPE
PERCNT:10TH		416.	188.	101.	30.	2.5	7.7	60.0	-4	10 <sup>e</sup> PERCNT
25TH		498.	261.	139.	43.	3.3	7.8	89.8	-2	25 <sup>e</sup>
MEDIAN 50TH		587.	332.	184.	58.	5.4	8.1	112.5	.4	50 <sup>e</sup> MEDIANE
75TH		1230.	671.	285.	80.	7.7	8.2	175.5	.9	75 <sup>e</sup>
90TH		2308.	1055.	396.	110.	17.0	8.4	291.	1.4	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED MG/L	11103L SODIUM DISSOLVED MG/L	20101L CALCIUM DISSOLVED MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG/L	06301L CARBONATE (CALCD.) MG/L	06201L BICARBONT. (CALCD.) MG/L	17203L CHLORIDE DISSOLVED MG/L	16303L SULPHATE DISSOLVED MG/L	
SUBM ID	K	NA	CA	MG	CO3	HC03	CL	SO4		
SAMPLES(FLAGS)	0124	24(0)	24(0)	24(0)	19(0)	20(0)	20(0)	24(0)	24(0)	ECHANTILLONS(IND.)
LOW		.9	17.7	29.7	3.1	0.	63.	10.0	34.0	MINIMUM
HIGH		5.6	328.	187.	57.6	11.	471.	485.	297.	MAXIMUM
AVERAGE		1.9	85.9	67.30	15.9	1.	178.	124.5	91.6	MOYENNE
STD.DEV.		1.1	77.3	38.52	14.2	3.	111.	116.5	61.5	ECART-TYPE
PERCNT:10TH		1.1	25.0	32.6	4.5	0.	73.	34.4	49.3	10 <sup>e</sup> PERCNT
25TH		1.3	41.1	42.05	6.5	0.	107.	55.1	56.9	25 <sup>e</sup>
MEDIAN 50TH		1.5	56.5	55.35	11.1	0.	135.	77.8	72.0	50 <sup>e</sup> MEDIANE
75TH		1.8	116.5	83.60	23.3	0.	234.	170.0	104.0	75 <sup>e</sup>
90TH		3.7	149.	113.	44.3	2.	349.	211.	138.	90 <sup>e</sup>
SECONDARY CODE				03L 01F				06L	06L 04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07307L NITROGEN DISSOLVED NITRATE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07652L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	14102L SILICA REACTIVE SiO2 MG/L	14201L SILICON SOL. ORTHO SILICATE Si MG/L	
SUBM ID										
SAMPLES(FLAGS)	0124	19(2)	23(4)					24(0)		ECHANTILLONS(IND.)
LOW		L.5	L.001					.2		MINIMUM
HIGH		2.2	2.00					7.8		MAXIMUM
AVERAGE		1.1*	.225*					3.02		MOYENNE
STD.DEV.		.4*	.459*					1.74		ECART-TYPE
PERCNT:10TH		L.5	L.001					.9		10 <sup>e</sup> PERCNT
25TH		.8	.010					2.05		25 <sup>e</sup>
MEDIAN 50TH		1.0	.03					2.70		50 <sup>e</sup> MEDIANE
75TH		1.2	.12					3.55		75 <sup>e</sup>
90TH		1.8	.610					5.4		90 <sup>e</sup>
SECONDARY CODE		02L	06L 06F							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10FC0001 LAT. 61 D 32M 0 S LONG. 117 D 57M 30 S

UTM 11 449000E 6822400 N

JAN 06 1972 TO/A OCT 29 1974

HORN RIVER NEAR MOUTH  
NORTHWEST TERRITORIES

SUBM ID	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS ORTHOPHOSPHATE P	15313F PHOSPHORUS TOTAL INORG. PO4 P	15403L PHOSPHATE DISSOLVED P	15403L PHOSPHATE TOTAL PO4	16001L CARBON TOTAL ORGANIC C	16051L CARBON TOTAL INORGANIC C	08101F OXYGEN DISSOLVED DO	02S 01P CODE DE SECOURS
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	2(0)	20(13)	9(0)	2(2)	24(0)	24(0)	3(0)	ECHANTILLONS(IND.)
LOW		.003	L.002	.003	L.003	10.0	9.0	4.3	MINIMUM
HIGH		.003	.010	.022	L.003	91.0	65.0	12.8	MAXIMUM
AVERAGE		.003	.003*	.013		25.1	22.8	8.1	MOYENNE
STD.DEV.		.000	.002*	.006		15.3	14.9	4.3	ECART-TYPE
PERCNT:10TH			L.002			15.0	10.0	10 <sup>e</sup>	PERCNT
25TH			L.002	.009		18.0	12.0	25 <sup>e</sup>	
MEDIAN 50TH		.003	L.002	.014	L.003	23.0	20.5	7.1	50 <sup>e</sup> MEDIANE
75TH			.003	.018		26.0	26.5	75 <sup>e</sup>	
90TH			.006			33.0	35.0	90 <sup>e</sup>	
SECONDARY CODE		56L 55F	13L						

SUBM ID	05105L BORON DISSOLVED B	03301P LITHIUM EXTRBL. LI	23301P VANADIUM EXTRBL. V	24302P CHROMIUM EXTRBL. CR	25101L MANGANESE DISSOLVED Mn	25304P MANGANESE EXTRBL. Mn	26102L IRON DISSOLVED FE	26304P IRON EXTRBL. FE	02S 01P CODE DE SECOURS
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	18(1)	23(4)	23(23)	23(23)	24(4)		24(0)	ECHANTILLONS(IND.)
LOW		L.02	L.005	L.05	L.010	.005		.08	MINIMUM
HIGH		.17	.020	L.05	L.015	1.10		1.00	MAXIMUM
AVERAGE		.11*	.009*			.093*		.423	MOYENNE
STD.DEV.		.04*	.004*			.228*		.264	ECART-TYPE
PERCNT:10TH		.06	L.005	L.05	L.010	L.01		.15	10 <sup>e</sup> PERCNT
25TH		.08	.006	L.05	L.010	.010		.230	25 <sup>e</sup>
MEDIAN 50TH		.11	.007	L.05	L.010	.020		.375	50 <sup>e</sup> MEDIANE
75TH		.13	.011	L.05	L.010	.050		.650	75 <sup>e</sup>
90TH		.16	.015	L.05	L.010	.26		.87	90 <sup>e</sup>
SECONDARY CODE	02L								CODE DE SECOURS

SUBM ID	28101L NICKEL DISSOLVED NI	28302P NICKEL EXTRBL. NI	29105L COPPER DISSOLVED CU	29305P COPPER EXTRBL. CU	30105L ZINC DISSOLVED ZN	30304P ZINC EXTRBL. ZN	33103L ARSENIC DISSOLVED AS	33303L ARSENIC EXTRBL. AS	02S 01P CODE DE SECOURS
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	22(4)		24(8)		24(11)	20(9)		ECHANTILLONS(IND.)
LOW		L.001		L.001		L.001	L.0005		MINIMUM
HIGH		.009		.007		.044	.021		MAXIMUM
AVERAGE		.005*		.002*		.006*	.0073*		MOYENNE
STD.DEV.		.002*		.002*		.009*	.0053*		ECART-TYPE
PERCNT:10TH		L.001		L.001		L.001	L.0005		10 <sup>e</sup> PERCNT
25TH		.003		L.001		.001*	L.0050		25 <sup>e</sup>
MEDIAN 50TH		.005		.002		.003	.0055		50 <sup>e</sup> MEDIANE
75TH		.007		.003		.008*	.0100		75 <sup>e</sup>
90TH		.007		.004		L.01	.0150		90 <sup>e</sup>
SECONDARY CODE					05P				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10FC0001** LAT. **61 D 32 M 0 S** LONG. **117 D 57 M 30 S**UTM **11 449000E 6822400 N**  
JAN 06, 1972 TO/A OCT 29, 1974HORN RIVER NEAR MOUTH,  
NORTHWEST TERRITORIES

		27302P COBALT EXTRBLE.	34301P SELENIUM EXTRBLE.	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48103L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	
	SUBM ID	CO MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	BA MG/L	
<b>SAMPLES(FLAGS)</b>	0124	22(8)		23(0)	22(22)			21(14)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>		<b>.10</b>	<b>L.05</b>			<b>L.001</b>	<b>.1</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.006</b>		<b>.94</b>	<b>L.10</b>			<b>.003</b>	<b>.1</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.002*</b>		<b>.31</b>				<b>.001*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.001*</b>		<b>.17</b>				<b>.001*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.001</b>		<b>.15</b>	<b>L.05</b>			<b>L.001</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.001</b>		<b>.23</b>	<b>L.05</b>			<b>L.001</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.001</b>		<b>.26</b>	<b>L.05</b>			<b>L.001</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.002</b>		<b>.38</b>	<b>L.05</b>			<b>.001</b>		<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.003</b>		<b>.41</b>	<b>L.05</b>			<b>.002</b>		<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		74301P TUNGSTEN EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	W MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	0124		3(2)	1(1)		24(18)	22(1)	12(1)	12(7)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>L.05</b>	<b>L.10</b>		<b>L.001</b>	<b>L.05</b>	<b>L.1</b>	<b>L.1</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>.05</b>	<b>L.10</b>		<b>.028</b>	<b>.38</b>	<b>43.</b>	<b>28.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.05*</b>			<b>.003*</b>	<b>.14*</b>	<b>10.*</b>	<b>5.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.00*</b>			<b>.006*</b>	<b>.08*</b>	<b>13.*</b>	<b>8.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>						<b>L.001</b>	<b>.05</b>	<b>2.</b>	<b>L.1</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						<b>L.001</b>	<b>.09</b>	<b>2.</b>	<b>L.1</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>L.05</b>			<b>L.001</b>	<b>.13</b>	<b>4.</b>	<b>L.1</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						<b>.004*</b>	<b>.17</b>	<b>9.</b>	<b>4.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>						<b>.007</b>	<b>.20</b>	<b>30.</b>	<b>13.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10GB0002 LAT 62 D 38 M 51 S LONG. 122 D 54 M 15 S

UTM 10 504900E 6946100N  
MAY 28 1969 TO/A OCT 30 1974WILLOW LAKE RIVER NEAR THE MOUTH  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	16603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00213L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0124	24(0)	31(0)	34(0)	36(1)	36(0)	29(0)	35(0)	28(0)	ECHANTILLONS(IND.)
LOW	0001	113.	66.	55.0	L5.	1.0	7.4	42.0	-.7	MINIMUM
HIGH	0056	1058.	994.	288.	140.	220.	8.2	179.	.8	MAXIMUM
AVERAGE		382.	234.	120.0	61.*	20.2		87.0		MOYENNE
STD.DEV.		218.	208.	55.0	33.*	48.7		29.4		ECART-TYPE
PERCNT:10TH		190.	79.	66.5	10.	2.1	7.7	51.2	-.5	10 <sup>e</sup> PERCNT
25TH		207.	102.	86.4	40.	2.8	7.8	66.2	-.3	25 <sup>e</sup>
MEDIAN 50TH		298.	151.	105.5	60.	4.2	8.0	82.5	-.1	50 <sup>e</sup> MEDIANE
75TH		488.	320.	124.	80.	11.0	8.1	96.0	.1	75 <sup>e</sup>
90TH		664.	376.	220.	100.	37.0	8.2	127.	.2	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBON. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0124	36(0)	36(0)	35(0)	30(0)	31(0)	31(0)	36(0)	36(0)	ECHANTILLONS(IND.)
LOW	0001	.5	3.4	15.8	1.8	0.	51.	3.4	9.3	MINIMUM
HIGH	0056	10.0	316.	82.5	19.9	0.	218.	490.	98.2	MAXIMUM
AVERAGE		1.6	65.4	36.03	7.9	0.	101.	99.3	32.9	MOYENNE
STD.DEV.		1.8	91.9	16.96	4.4	0.	34.	144.7	25.0	ECART-TYPE
PERCNT:10TH		.6	6.4	20.1	4.0	0.	62.	6.6	14.5	10 <sup>e</sup> PERCNT
25TH		.8	9.4	26.0	4.8	0.	80.	10.8	16.0	25 <sup>e</sup>
MEDIAN 50TH		1.0	22.1	32.3	7.1	0.	100.	33.7	23.3	50 <sup>e</sup> MEDIANE
75TH		1.3	75.0	34.8	9.1	0.	110.	112.0	35.3	75 <sup>e</sup>
90TH		3.0	250.	68.0	14.2	0.	127.	396.	79.0	90 <sup>e</sup>
SECONDARY CODE				01F				06L	06L 04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07307L NITROGEN DISSOLVED NITRATE	07551L NITROGEN DISSOLVED AMMONIA	07652L NITROGEN DISSOLVED	07902L NITROGEN PARTICUL	14102L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	
	SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	SIO2 MG/L	SI MG/L	
SAMPLES(FLAGS)	0124	23(5)	35(9)		4(0)			36(0)		ECHANTILLONS(IND.)
LOW	0001	L5	L.001		.1			1.9		MINIMUM
HIGH	0056	1.3	2.90		.5			4.8		MAXIMUM
AVERAGE		.7*	.139*		.4			3.25		MOYENNE
STD.DEV.		.2*	.486*		.2			.82		ECART-TYPE
PERCNT:10TH		L.5	L.005					2.0		10 <sup>e</sup> PERCNT
25TH		.5	.009		.3			2.55		25 <sup>e</sup>
MEDIAN 50TH		.7	.020		.5			3.20		50 <sup>e</sup> MEDIANE
75TH		.9	.12		.5			3.80		75 <sup>e</sup>
90TH		1.0	.170					4.4		90 <sup>e</sup>
SECONDARY CODE		02L	06F 06L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10GB0002** LAT. **62 D 38 M 51 S** LONG. **122 D 54 M 15 S**UTM **10 504900E 6946100 N**

MAY 28, 1969 TO/À OCT 30, 1974

WILLOW LAKE RIVER NEAR THE MOUTH,  
NORTHWEST TERRITORIES

SUBM ID	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15313F PHOSPHORUS TOTAL INORG. PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15403L PHOSPHATE TOTAL PO4 MG/L	06001L CARBON TOTAL ORGANIC C MG/L	06051L CARBON TOTAL INORGANIC C MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	
<b>SAMPLES(FLAGS)</b>	0124	3(3)	32(18)	21(4)	3(2)	31(0)	31(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	<b>L.003</b>	<b>L.002</b>	<b>L.002</b>	<b>L.003</b>	<b>5.0</b>	<b>7.0</b>	<b>11.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	0056	<b>L.003</b>	<b>.010</b>	<b>.14</b>	<b>.007</b>	<b>30.0</b>	<b>29.0</b>	<b>11.6</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.004*</b>	<b>.021*</b>	<b>.004*</b>	<b>16.8</b>	<b>16.0</b>	<b>11.3</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.002*</b>	<b>.037*</b>	<b>.002*</b>	<b>5.2</b>	<b>5.6</b>	<b>.4</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			<b>L.002</b>	<b>L.003</b>		<b>11.0</b>	<b>10.0</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>L.002</b>	<b>.004</b>		<b>14.0</b>	<b>11.0</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.003</b>	<b>L.003</b>	<b>.007</b>	<b>L.003</b>	<b>17.0</b>	<b>15.0</b>	<b>11.3</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>.005</b>	<b>.013</b>		<b>19.0</b>	<b>20.0</b>		<b>75<sup>e</sup></b>
<b>90TH</b>			<b>.007</b>	<b>.058</b>		<b>23.0</b>	<b>23.0</b>		<b>90<sup>e</sup></b>
SECONDARY CODE		55F 56L 57L	13L 14L					02S	CODE DE SECOURS

		05105L BORON DISSOLVED	03301P LITHIUM EXTRBLE.	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	
SUBM ID		B MG/L	LI MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	FE MG/L	FE MG/L	
SAMPLES(FLAGS)	0056	23(0)	26(10)	25(24)	26(26)	4(4)	31(9)	10(0)	27(0)	ECHANTILLONS(IND.)
LOW	0001	.02	L.005	L.05	L.010	L.010	L.01	.040	.10	MINIMUM
HIGH	0124	.22	.10	.07	L.015	L.01	.18	.110	4.6	MAXIMUM
AVERAGE		.09	.015*	.0508*			.028*	.077	.657	MOYENNE
STD.DEV.		.05	.020*	.0040*			.036*	.025	1.111	ECART-TYPE
PERCNT:10TH		.03	L.005	L.05	L.010		L.01	.040	.15	10 <sup>e</sup> PERCNT
25TH		.06	L.005	L.05	L.010	L.010	L.01	.060	.20	25 <sup>e</sup>
MEDIAN 50TH		.10	.007	L.05	L.010	L.010	.012	.080	.25	50 <sup>e</sup> MEDIANE
75TH		.12	.012	L.05	L.010	L.010	.03	.100	.47	75 <sup>e</sup>
90TH		.13	.035	L.05	L.015		.06	.105	1.40	90 <sup>e</sup>
SECONDARY CODE		02L				04L	04L 05P			CODE DE SECOURS

SUBM ID	28101L NICKEL DISSOLVED NI MG/L	28302P NICKEL EXTRBL. NI MG/L	29105L COPPER DISSOLVED CU MG/L	29305P COPPER EXTRBL. CU MG/L	30105L ZINC DISSOLVED ZN MG/L	30304P ZINC EXTRBL. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	33303L ARSENIC EXTRBL. AS MG/L	
<b>SAMPLES(FLAGS)</b>	0124	1(0)	26(5)	2(0)	33(15)	2(1)	33(16)	22(13)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	<b>.002</b>	<b>L.001</b>	<b>.005</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>MINIMUM</b>
<b>HIGH</b>	0056	<b>.002</b>	<b>.010</b>	<b>.006</b>	<b>L.01</b>	<b>.004</b>	<b>.035</b>	<b>.015</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.005*</b>	<b>.006</b>	<b>.004*</b>	<b>.002*</b>	<b>.008*</b>	<b>.0056*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.003*</b>	<b>.001</b>	<b>.003*</b>	<b>.002*</b>	<b>.007*</b>	<b>.0039*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			<b>L.001</b>		<b>L.001</b>		<b>L.001</b>	<b>L.0005</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>.002</b>		<b>L.001</b>		<b>.003</b>	<b>L.005</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>.005</b>	<b>.006</b>	<b>.002</b>	<b>.002*</b>	<b>.007</b>	<b>L.0050</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>.007</b>		<b>.005</b>		<b>L.01</b>	<b>.008</b>	<b>75<sup>e</sup></b>
<b>90TH</b>			<b>.008</b>		<b>L.01</b>		<b>.01</b>	<b>.009</b>	<b>90<sup>e</sup></b>
SECONDARY CODE				06L	05P 04L	04L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10GB0002 LAT. 62 D 38 M 51 S LONG. 122 D 54 M 15 S

UTM 10 504900 6946100 N  
AUG 08 1969 TO/A OCT 30 1974WILLOW LAKE RIVER NEAR THE MOUTH  
NORTHWEST TERRITORIES

		27302P COBALT EXTRBL.	34301P SELENIUM EXTRBL.	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48103L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	
	SUBM ID	CO MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	BA MG/L	
SAMPLES(FLAGS)	0056	26(10)		25(1)	26(25)		1(1)	26(17)	1(1)	ECHANTILLONS(IND.)
LOW	0124	L.001		.01	L.05		L.001	L.001	L.1	MINIMUM
HIGH		.019		1.37	.21		L.001	.003	L.1	MAXIMUM
AVERAGE		.002*		.24*	.06*			.001*		MOYENNE
STD.DEV.		.003*		.30*	.03*			.000*		ECART-TYPE
PERCNT:10TH		L.001		.04	L.05			L.001		10 <sup>e</sup> PERCNT
25TH		L.001		.06	L.05			L.001		25 <sup>e</sup>
MEDIAN 50TH		.002		.12	L.05			L.001		50 <sup>e</sup> MEDIANE
75TH		.003		.21	L.05			.001		75 <sup>e</sup>
90TH		.003		.62	L.10			.002		90 <sup>e</sup>
SECONDARY CODE							01L			CODE DE SECOURS

		74301P TUNGSTEN EXTRBL.	80311P MERCURY EXTRBL.	81302P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	W MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124		7(4)		2(2)	31(23)	34(3)	18(2)	18(5)	ECHANTILLONS(IND.)
LOW	0001		L.05		L.001	L.001	L.05	L.1	L.1	MINIMUM
HIGH	0056		.16		L.01	.012	.87	275.	238.	MAXIMUM
AVERAGE			.07*			.004*	.11*	40.*	32.*	MOYENNE
STD.DEV.			.04*			.004*	.14*	75.*	65.*	ECART-TYPE
PERCNT:10TH						L.001	.05	L.1	L.1	10 <sup>e</sup> PERCNT
25TH			L.05			L.001	.07	3.	L.1	25 <sup>e</sup>
MEDIAN 50TH			L.05		L.005	.002	.08	9.	5.	50 <sup>e</sup> MEDIANE
75TH			.08			.006	L.10	42.	29.	75 <sup>e</sup>
90TH						L.01	.16	194.	164.	90 <sup>e</sup>
SECONDARY CODE					02L	01L	04L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10GB0003** LAT. **62 D 39 M 10 S** LONG. **122 D 54 M 50 S**UTM **10 504400E 6946800 N**

AUG 06, 1971 TO/À OCT 06, 1973

WILLOW LAKE RIVER AT W.S.C. GAUGE  
ABOVE MOUTH, NORTHWEST TERRITORIES

		02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH PH UNITS	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SAMPLES(FLAGS)	0402	11(0)	12(0)	10(4)	11(0)	11(0)	12(2)	11(0)	12(0)	ECHANTILLONS(IND.)
LOW		59.	83.2	.10	6.9	.02	L.002	4.8	1.30	MINIMUM
HIGH		2025.	217.7	2.00	8.2	.88	.11	12.9	2.22	MAXIMUM
AVERAGE		534.	121.3	.93*		.42	.022*	8.8	1.69	MOYENNE
STD.DEV.		587.	37.3	.65*		.22	.031*	1.9	.30	ECART-TYPE
PERCNT:10TH		182.	84.7	.10	7.4	.27	L.003	7.3	1.32	10 <sup>e</sup> PERCNT
25TH		199.	92.7	.20	7.6	.31	.007	8.4	1.44	25 <sup>e</sup>
MEDIAN 50TH		355.	119.6	.95	7.9	.37	.010	8.9	1.71	50 <sup>e</sup> MEDIANE
75TH		550.	136.7	G1.50	8.1	.49	.025	9.4	1.81	75 <sup>e</sup>
90TH		1250.	144.8	1.75	8.1	.64	.05	9.4	2.19	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HC03 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
SAMPLES(FLAGS)	0402	12(0)	12(0)	12(0)	12(0)	11(0)	11(0)	11(0)		ECHANTILLONS(IND.)
LOW		.6	13.7	21.2	1.9	64.	13.4	16.6		MINIMUM
HIGH		5.7	320.	56.5	18.6	165.	305.	980.		MAXIMUM
AVERAGE		1.9	67.8	33.58	9.1	117.	97.8	112.3		MOYENNE
STD.DEV.		1.6	84.9	11.50	4.0	35.	86.8	287.9		ECART-TYPE
PERCNT:10TH		.6	14.0	23.4	5.7	74.	20.4	17.2		10 <sup>e</sup> PERCNT
25TH		.9	17.6	25.25	7.1	81.	21.8	20.2		25 <sup>e</sup>
MEDIAN 50TH		1.4	37.7	31.45	8.7	115.	65.7	24.0		50 <sup>e</sup> MEDIANE
75TH		2.0	83.5	36.35	10.8	151.	150.	36.0		75 <sup>e</sup>
90TH		4.3	96.6	54.9	11.6	153.	163.	38.4		90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0402	9(4)	9(0)	7(1)	8(1)		8(4)	7(0)	12(0)	ECHANTILLONS(IND.)
LOW		L.001	.06	.001	L.001		L.001	.001	1.	MINIMUM
HIGH		.027	.22	.038	.026		.009	.006	59.	MAXIMUM
AVERAGE		.008*	.112	.009*	.009*		.002*	.003	9.	MOYENNE
STD.DEV.		.009*	.047	.013*	.008*		.003*	.002	16.	ECART-TYPE
PERCNT:10TH									2.	10 <sup>e</sup> PERCNT
25TH		L.001	.085	.002	.003		L.001	.002	2.	25 <sup>e</sup>
MEDIAN 50TH		.006	.101	.004	.008		.001*	.002	4.	50 <sup>e</sup> MEDIANE
75TH		.012	.11	.006	.013		.003	.004	8.	75 <sup>e</sup>
90TH									10.	90 <sup>e</sup>
SECONDARY CODE										07L 07L 04L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10GC0001 LAT. 61 D 52M

LONG. 121 D 20M

UTM 10 588000E 6862000 N  
AUG 10 1960 TO/A OCT 29 1974MACKENZIE RIVER NEAR FORT SIMPSON  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00213L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0124	192.	104.	83.1	L5.	.8	7.3	63.6	-.9	MINIMUM
HIGH	0017	441.	219.	197.	110.	140.	8.6	173.	1.0	MAXIMUM
AVERAGE	0001	253.	127.	110.1	23.*	21.7		86.5		MOYENNE
STD.DEV.	0056	54.	19.	24.7	19.*	31.9		23.3		ECART-TYPE
PERCNT:10TH		213.	114.	92.3	5.	2.4	7.6	71.	-.4	10 <sup>e</sup> PERCNT
25TH		226.	118.	96.6	10.	4.1	7.8	75.9	-.2	25 <sup>e</sup>
MEDIAN 50TH		237.	124.	101.5	20.	9.9	8.0	78.9	-.1	50 <sup>e</sup> MEDIANE
75TH		261.	131.	113.5	30.	20.0	8.2	85.2	.1	75 <sup>e</sup>
90TH		328.	135.	136.	40.	67.0	8.3	108.	.1	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16301L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0124	.6	1.8	13.9	1.8	0.	76.	.6	13.9	MINIMUM
HIGH	0001	2.2	10.0	58.1	20.7	3.	211.	55.0	42.5	MAXIMUM
AVERAGE	0017	1.1	7.1	31.88	7.2	0.	106.	7.5	24.9	MOYENNE
STD.DEV.	0440	.3	1.7	7.04	3.4	0.	30.	7.1	5.1	ECART-TYPE
PERCNT:10TH		.9	5.0	27.2	4.5	0.	87.	1.4	20.4	10 <sup>e</sup> PERCNT
25TH		1.0	7.0	28.9	5.5	0.	92.	5.7	22.4	25 <sup>e</sup>
MEDIAN 50TH		1.1	7.4	30.	6.0	0.	96.	7.6	24.3	50 <sup>e</sup> MEDIANE
75TH		1.2	8.0	33.0	7.2	0.	104.	8.7	26.9	75 <sup>e</sup>
90TH		1.5	8.7	39.0	11.8	0.	137.	9.2	31.5	90 <sup>e</sup>
SECONDARY CODE		01L	01L	02L 01F				01L 06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07307L NITROGEN DISSOLVED NITRATE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07652L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL N MG/L	14102L SILICA REACTIVE SiO2 MG/L	14201L SILICON SOL. ORTHO SILICATE Si MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0440	.4	L.001	.023	L.1			39(0)		MINIMUM
HIGH	0017	1.6	.600	1.0	.3			6.3		MAXIMUM
AVERAGE	0001	.6*	.108*	.263	.2*			3.24		MOYENNE
STD.DEV.	0056	.2*	.127*	.335	.1*			.83		ECART-TYPE
PERCNT:10TH		L.5	L.005					2.3		10 <sup>e</sup> PERCNT
25TH		L.5	.030	.057	.1			2.80		25 <sup>e</sup>
MEDIAN 50TH		L.5	.070	.136	.1			3.1		50 <sup>e</sup> MEDIANE
75TH		.5	.120	.350	.3			3.5		75 <sup>e</sup>
90TH		.6	.350					4.2		90 <sup>e</sup>
SECONDARY CODE		02L	06F 06L					01L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10GC0001** LAT. **61 D 52M** LONG. **121 D 20M**UTM **10 588000E 6862000 N**  
AUG 06, 1969 TO/A OCT 29, 1974MACKENZIE RIVER NEAR FORT SIMPSON,  
NORTHWEST TERRITORIES

SUBM ID	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313F PHOSPHORUS TOTAL INORG. PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15403L PHOSPHATE TOTAL	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08101F OXYGEN DISSOLVED DO	
	P MG/L	P MG/L	P MG/L	P MG/L	PO4 MG/L	C MG/L	C MG/L	O2 MG/L	
<b>SAMPLES(FLAGS)</b> 0440	3(3)	30(23)	15(2)	3(3)	16(0)	45(1)	45(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0124	<b>L.003</b>	<b>L.002</b>	<b>L.002</b>	<b>L.003</b>	<b>.02</b>	<b>L.5</b>	<b>9.0</b>	<b>9.8</b>	<b>MINIMUM</b>
<b>HIGH</b> 0056	<b>L.003</b>	<b>.010</b>	<b>.041</b>	<b>L.003</b>	<b>2.0</b>	<b>30.0</b>	<b>39.0</b>	<b>15.8</b>	<b>MAXIMUM</b>
<b>AVERAGE</b> 0001		<b>.003*</b>	<b>.020*</b>		<b>.25</b>	<b>9.1*</b>	<b>17.2</b>	<b>12.8</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.002*</b>	<b>.014*</b>		<b>.54</b>	<b>5.9*</b>	<b>6.0</b>	<b>4.2</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		L.002	L.003		.04	5.0	11.0		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.002	.005		.04	6.0	13.0		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.003</b>	<b>L.002</b>	<b>.016</b>	<b>L.003</b>	<b>.05</b>	<b>8.0</b>	<b>16.0</b>	<b>12.8</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		L.003	.033		.08	9.0	19.0		<b>75<sup>e</sup></b>
<b>90TH</b>		.006	.040		1.1	18.0	23.0		<b>90<sup>e</sup></b>
SECONDARY CODE		57L 56L 55F	14L 13L					02S	CODE DE SECOURS

SUBM ID	05105L BORON DISSOLVED	03301P LITHIUM EXTRBLE.	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	
	B MG/L	LI MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	FE MG/L	FE MG/L	
<b>SAMPLES(FLAGS)</b> 0440	22(2)	26(11)	26(25)	26(26)	28(27)	31(20)	29(5)	32(2)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0124	<b>.01</b>	<b>L.005</b>	<b>L.05</b>	<b>L.010</b>	<b>L.01</b>	<b>.007</b>	<b>L.001</b>	<b>L.05</b>	<b>MINIMUM</b>
<b>HIGH</b> 0001	<b>.07</b>	<b>.008</b>	<b>.06</b>	<b>L.015</b>	<b>.01</b>	<b>.08</b>	<b>.380</b>	<b>.88</b>	<b>MAXIMUM</b>
<b>AVERAGE</b> 0017	<b>.04*</b>	<b>.005*</b>	<b>.0504*</b>		<b>.010*</b>	<b>.014*</b>	<b>.035*</b>	<b>.312*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b> 0056	<b>.02*</b>	<b>.001*</b>	<b>.0020*</b>		<b>.000*</b>	<b>.013*</b>	<b>.069*</b>	<b>.225*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	L.02	L.005	L.05	L.010	L.01	L.01	L.01	.08	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	.03	L.005	L.05	L.010	L.010	L.01	.010	.125	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.05</b>	<b>.005</b>	<b>L.0500</b>	<b>L.010</b>	<b>L.010</b>	<b>L.01</b>	<b>.02</b>	<b>.250</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	.05	.005	L.05	L.010	L.010	.01	.030	.450	<b>75<sup>e</sup></b>
<b>90TH</b>	.06	.007	L.05	L.010	L.010	.02	.060	.59	<b>90<sup>e</sup></b>
SECONDARY CODE	02L				04L	05P 03L	01L	01L	CODE DE SECOURS

SUBM ID	28101L NICKEL DISSOLVED	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30304P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	33303L ARSENIC EXTRBLE.	
	NI MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	AS MG/L	
<b>SAMPLES(FLAGS)</b> 0440	2(1)	26(5)	20(4)	28(2)	20(6)	28(4)	21(15)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b> 0056	<b>L.002</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>		<b>MINIMUM</b>
<b>HIGH</b> 0124	<b>.008</b>	<b>.021</b>	<b>.010</b>	<b>L.01</b>	<b>.017</b>	<b>.035</b>	<b>.010</b>		<b>MAXIMUM</b>
<b>AVERAGE</b> 0001	<b>.005*</b>	<b>.006*</b>	<b>.004*</b>	<b>.003*</b>	<b>.004*</b>	<b>.007*</b>	<b>.0045*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.004*</b>	<b>.004*</b>	<b>.003*</b>	<b>.002*</b>	<b>.004*</b>	<b>.008*</b>	<b>.0026*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		L.001	L.001	.001	L.001	.001	L.0005		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.003	.001	.002	.001	.002	L.005		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.005*</b>	<b>.006</b>	<b>.002</b>	<b>.003</b>	<b>.003</b>	<b>.004</b>	<b>L.005</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.007	.007	.004	.004	L.010	L.005		<b>75<sup>e</sup></b>
<b>90TH</b>		.008	.008*	.005	L.010	.021	.007		<b>90<sup>e</sup></b>
SECONDARY CODE	02P		06L	06L	04L	04L 05P	04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10GC0001 LAT 61 D 52M LONG. 121 D 20M

UTM 10 588000E 6862000 N  
AUG 06 1969 TO/A OCT 29 1974MACKENZIE RIVER NEAR FORT SIMPSON  
NORTHWEST TERRITORIES

		27302P COBALT EXTRBL.	34301P SELENIUM EXTRBL.	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48103L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	
	SUBM ID	CO MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	BA MG/L	
SAMPLES(FLAGS)	0124	26(10)		26(0)	26(24)		1(1)	26(16)	1(1)	ECHANTILLONS(IND.)
LOW	0056	L.001		.09	L.05		L.001	L.001	L.1	MINIMUM
HIGH		.009		.22	.56		L.001	.006	L.1	MAXIMUM
AVERAGE		.002*		.14	.08*			.002*		MOYENNE
STD.DEV.		.002*		.03	.11*			.001*		ECART-TYPE
PERCNT:10TH		L.001		.10	L.05			L.001		10 <sup>e</sup> PERCNT
25TH		L.001		.12	L.05			L.001		25 <sup>e</sup>
MEDIAN 50TH		.002		.14	L.05			L.001		50 <sup>e</sup> MEDIANE
75TH		.003		.15	L.05			.002		75 <sup>e</sup>
90TH		.004		.17	L.10			.003		90 <sup>e</sup>
SECONDARY CODE							01L			CODE DE SECOURS

		74301P TUNGSTEN EXTRBL.	80311P MERCURY EXTRBL.	81302P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	W MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124		8(6)	1(1)	20(17)	26(16)	37(3)	22(1)	21(4)	ECHANTILLONS(IND.)
LOW	0001		L.05	L.10	L.001	L.001	L.05	L.1	L.1	MINIMUM
HIGH	0440		.08	L.10	.018	L.05	.20	560.	560.	MAXIMUM
AVERAGE	0056		.06*		.003*	.006*	.09*	48.*	46.*	MOYENNE
STD.DEV.	0017		.01*		.004*	.011*	.03*	121.*	123.*	ECART-TYPE
PERCNT:10TH					L.001	L.001	.05	1.	L.1	10 <sup>e</sup> PERCNT
25TH			L.05		L.001	L.001	.07	3.	2.	25 <sup>e</sup>
MEDIAN 50TH			L.05		L.001	.001*	.08	12.	8.	50 <sup>e</sup> MEDIANE
75TH			.06*		L.001	.005	.09	24.	20.	75 <sup>e</sup>
90TH					.009*	.014	.13	107.	92.	90 <sup>e</sup>
SECONDARY CODE					02L	03P 01L	02L	02L	02L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10GC0002** LAT. **62 D 6 M 0 S** LONG. **122 D 11 M 30 S**UTM **10 542000 E 6885000 N**  
JUN 25, 1971 TO/A JUL 08, 1971TRAIL RIVER ABOUT 0.5 MILE UPSTREAM  
FROM MOUTH, NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0440	2(0)		2(0)	2(0)	2(0)	2(0)	2(0)		ECHANTILLONS(IND.)
LOW		167.		80.7	130.	2.2	7.7	60.1		MINIMUM
HIGH		192.		94.6	140.	2.6	8.1	76.6		MAXIMUM
AVERAGE		180.		87.6	135.	2.4		68.3		MOYENNE
STD.DEV.		18.		9.8	7.	.3		11.7		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH										25 <sup>e</sup>
MEDIAN 50TH		180.		87.6	135.	2.4	7.9	68.3		50 <sup>e</sup> MEDIANE
75TH										75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0440	19(0)	19(0)	21(0)	2(0)	2(0)	2(0)	21(3)	21(0)	ECHANTILLONS(IND.)
LOW	0402	.5	4.1	10.8	3.1	0.	73.	.2	14.1	MINIMUM
HIGH		4.6	62.6	98.6	3.5	0.	93.	107.	26.5	MAXIMUM
AVERAGE		1.4	12.7	29.68	3.3	0.	83.	8.1*	21.1	MOYENNE
STD.DEV.		1.3	16.5	18.75	.3	0.	14.	23.3*	3.5	ECART-TYPE
PERCNT:10TH		.5	4.7	16.2				L.3	16.0	10 <sup>e</sup> PERCNT
25TH		.6	4.9	20.8				.5	18.4	25 <sup>e</sup>
MEDIAN 50TH		.7	6.7	25.1	3.3	0.	83.	1.6	22.0	50 <sup>e</sup> MEDIANE
75TH		2.0	9.8	32.8				4.1	23.4	75 <sup>e</sup>
90TH		4.2	53.6	46.7				4.6	24.5	90 <sup>e</sup>
SECONDARY CODE		05L	05L	03L				03L 07L	03L 05L	CODE DE SECOURS

		07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07557L NITROGEN DISSOLVED AMMONIA N MG/L	15102L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15313L PHOSPHORUS TOTAL INORG. PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0440	2(2)		20(0)				2(0)	2(0)	ECHANTILLONS(IND.)
LOW	0402	L.005		.003				.04	29.0	MINIMUM
HIGH		L.005		.667				.05	29.0	MAXIMUM
AVERAGE				.052				.045	29.0	MOYENNE
STD.DEV.				.145				.007	.0	ECART-TYPE
PERCNT:10TH				.007						10 <sup>e</sup> PERCNT
25TH				.016						25 <sup>e</sup>
MEDIAN 50TH		L.005		.019				.045	29.0	50 <sup>e</sup> MEDIANE
75TH				.028						75 <sup>e</sup>
90TH				.032						90 <sup>e</sup>
SECONDARY CODE		05L		01L				03L		CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10GC0002 LAT. 62 D 6 M 0 S LONG. 122 D 11 M 30 S

UTM 10 542000E 6885000 N  
JUN 25 1971 TO/A SEP 20 1973TRAIL RIVER ABOUT 0.5 MILE UPSTREAM  
FROM MOUTH NORTHWEST TERRITORIES

	14105L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	08103F OXYGEN DISSOLVED DO	25105L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	26107L IRON DISSOLVED	27102P COBALT EXTRBL.	28102P NICKEL EXTRBL.	
SUBM ID	SiO2 MG/L	Si MG/L	O2 MG/L	MN MG/L	MN MG/L	FE MG/L	CO MG/L	NI MG/L	
SAMPLES(FLAGS)	0440 1(0)	20(0)	18(0)	12(5)		12(0)			ECHANTILLONS(IND.)
LOW	0402 4.7	1.85	2.2	L.001		.104			MINIMUM
HIGH	4.7	11.7	13.0	.068		.692			MAXIMUM
AVERAGE		3.78	8.1	.021*		.436			MOYENNE
STD.DEV.		2.26	2.3	.023*		.211			ECART-TYPE
PERCNT:10TH		1.92	6.0	L.001		.140			10 <sup>e</sup> PERCNT
25TH		2.32	7.3	L.005		.275			25 <sup>e</sup>
MEDIAN 50TH		3.45	8.0	.010		.455			50 <sup>e</sup> MEDIANE
75TH		3.86	8.8	.028		.611			75 <sup>e</sup>
90TH		6.38	11.8	.063		.690			90 <sup>e</sup>
SECONDARY CODE	02L		01F	04L 07L		02L			CODE DE SECOURS

	29107L COPPER DISSOLVED	29305P COPPER EXTRBL.	30107L ZINC DISSOLVED	30305P ZINC EXTRBL.	33304L ARSENIC EXTRBL.	34302L SELENIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48302P CADMIUM EXTRBL.	
SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	SE MG/L	MO MG/L	CD MG/L	
SAMPLES(FLAGS)	0402 12(1)		11(2)						ECHANTILLONS(IND.)
LOW	0440 .001		L.001						MINIMUM
HIGH	.039		.050						MAXIMUM
AVERAGE	.008*		.015*						MOYENNE
STD.DEV.	.013*		.015*						ECART-TYPE
PERCNT:10TH	.001		L.001						10 <sup>e</sup> PERCNT
25TH	.001		.003						25 <sup>e</sup>
MEDIAN 50TH	.002		.009						50 <sup>e</sup> MEDIANE
75TH	.006		.019						75 <sup>e</sup>
90TH	.034		.032						90 <sup>e</sup>
SECONDARY CODE	05L		05L						CODE DE SECOURS

	56301P BARIUM EXTRBL.	82104L LEAD DISSOLVED	82302P LEAD EXTRBL.	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	BA MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0440 12(8)				20(2)				ECHANTILLONS(IND.)
LOW	0402 L.001				L1.				MINIMUM
HIGH	.003				25.				MAXIMUM
AVERAGE	.002*				5.*				MOYENNE
STD.DEV.	.001*				7.*				ECART-TYPE
PERCNT:10TH	L.001				1.*				10 <sup>e</sup> PERCNT
25TH	L.001				1.				25 <sup>e</sup>
MEDIAN 50TH	.001*				2.				50 <sup>e</sup> MEDIANE
75TH	.002*				5.				75 <sup>e</sup>
90TH	.003				17.				90 <sup>e</sup>
SECONDARY CODE	03L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10GC0003** LAT. **61 D 52 M 30 S** LONG. **121 D 18 M 0 S**UTM **10 589000E 6861000 N**  
JUN 25, 1971 TO/À JUL 22, 1971HARRIS RIVER ABOUT 0.5 MILE FROM  
MOUTH, NORTHWEST TERRITORIES

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0440	2(0)	2(0)	2(0)	2(0)	2(0)	2(0)		ECHANTILLONS(IND.)
LOW		247.	125.	35.	3.7	7.9	84.4		MINIMUM
HIGH		262.	146.	100.	6.2	8.1	89.9		MAXIMUM
AVERAGE		255.	135.5	68.	5.0		87.1		MOYENNE
STD.DEV.		11.	14.8	46.	1.8		3.9		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		255.	135.5	68.	5.0	8.0	87.1		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0440	2(0)	2(0)	4(0)	2(0)	2(0)	4(1)	4(0)	ECHANTILLONS(IND.)
LOW	0402	.7	3.9	21.7	7.9	0.	103.	L.3	MINIMUM
HIGH		1.5	12.4	37.1	16.8	0.	110.	5.8	MAXIMUM
AVERAGE		1.1	8.1	29.52	12.3	0.	106.	2.0*	MOYENNE
STD.DEV.		.6	6.0	6.36	6.3	0.	5.	2.6*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH				25.10			.6*	42.1	25 <sup>e</sup>
MEDIAN 50TH		1.1	8.1	29.65	12.3	0.	106.	.9	50 <sup>e</sup> MEDIANE
75TH				33.95				3.4	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L	05L	03L				03L 07L	03L 05L	CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07557L NITROGEN DISSOLVED AMMONIA N MG/L	15102L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15313L PHOSPHORUS TOTAL INORG. PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0440	2(0)	2(0)				2(0)	2(0)	ECHANTILLONS(IND.)
LOW	0402	.010	.016				.04	14.0	MINIMUM
HIGH		.010	.029				.04	27.0	MAXIMUM
AVERAGE		.010	.023				.040	20.5	MOYENNE
STD.DEV.		.000	.009				.000	9.2	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH		.010	.023				.040	20.5	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L		01L				03L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960.1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10GC0003 LAT. 61 D 52 M 30 S LONG. 121 D 18 M 0 S

UTM 10 589000 F 6861000 N  
JUN 25 1971 TO/A AUG 08 1972HARRIS RIVER ABOUT 0.5 MILE FROM  
MOUTH NORTHWEST TERRITORIES

	14105L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	08103F OXYGEN DISSOLVED DO	25105L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	26107L IRON DISSOLVED	27302P COBALT EXTRBL.	28302P NICKEL EXTRBL.	
SUBM ID	SIO2 MG/L	SI MG/L	O2 MG/L	MN MG/L	MN MG/L	FE MG/L	CO MG/L	NI MG/L	
SAMPLES(FLAGS)	0440	1(0)	2(0)	3(0)	4(4)	4(0)			ECHANTILLONS(IND.)
LOW	0402	4.0	1.98	3.8	L.001	.020			MINIMUM
HIGH		4.0	2.08	6.8	L.01	.293			MAXIMUM
AVERAGE			2.03	4.8		.121			MOYENNE
STD.DEV.			.07	1.7		.127			ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH					L.001	.026			25 <sup>e</sup>
MEDIAN 50TH		2.03	3.8	L.005		.086			50 <sup>e</sup> MEDIANE
75TH				L.010		.217			75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02L		01F	04L		02L			CODE DE SECOURS

	29107L COPPER DISSOLVED	29305P COPPER EXTRBL.	30107L ZINC DISSOLVED	30305P ZINC EXTRBL.	33304L ARSENIC EXTRBL.	34302L SELENIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48302P CADMIUM EXTRBL.	
SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	SE MG/L	MO MG/L	CD MG/L	
SAMPLES(FLAGS)	0402	4(0)	4(1)						ECHANTILLONS(IND.)
LOW	0440	.001	L.001						MINIMUM
HIGH		.004	.016						MAXIMUM
AVERAGE		.003	.005*						MOYENNE
STD.DEV.		.001	.007*						ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.002	.001*						25 <sup>e</sup>
MEDIAN 50TH		.003	.002						50 <sup>e</sup> MEDIANE
75TH		.004	.009						75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	05L		05L						CODE DE SECOURS

	56301P BARIUM EXTRBL.	82104L LEAD DISSOLVED	82302P LEAD EXTRBL.	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	BA MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0440	4(3)			2(1)				ECHANTILLONS(IND.)
LOW	0402	L.001			L.1				MINIMUM
HIGH		.002			2.				MAXIMUM
AVERAGE		.001*			1.*				MOYENNE
STD.DEV.		.001*			1.*				ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.001							25 <sup>e</sup>
MEDIAN 50TH		L.001			1.*				50 <sup>e</sup> MEDIANE
75TH		.001*							75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	03L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

MACKENZIE RIVER SUB-BASIN

STATION **00NW10GC0004** LAT. **61 D 52 M 30 S** LONG. **121 D 18 M 30 S**

UTM **10 589000E 6861000 N**  
JUL 08, 1971 TO/À JUL 08, 1971

HARRIS RIVER ABOUT 0.25 MILE FROM  
MOUTH, NORTHWEST TERRITORIES

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	0440	1(0)	1(0)	1(0)	1(0)	1(0)	1(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>278.</b>	<b>131.</b>	<b>60.</b>	<b>1.5</b>	<b>8.1</b>	<b>99.7</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>278.</b>	<b>131.</b>	<b>60.</b>	<b>1.5</b>	<b>8.1</b>	<b>99.7</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>									<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
SAMPLES(FLAGS)	0402	24(0)	24(0)	25(0)	1(0)	1(0)	1(0)	25(5)	25(0)	ECHANTILLONS(IND.)
LOW	0440	.6	3.7	23.3	8.5	0.	122.	.0	26.0	MINIMUM
HIGH		3.4	119.	154.	8.5	0.	122.	9.2	213.	MAXIMUM
AVERAGE		1.3	13.7	45.30				1.7*	53.1	MOYENNE
STD.DEV.		.6	24.0	25.48				2.0*	35.6	ECART-TYPE
PERCNT:10TH		.8	3.8	25.7				.2	34.9	10 <sup>e</sup> PERCNT
25TH		.9	4.4	30.6				1.3	37.2	25 <sup>e</sup>
MEDIAN 50TH		1.1	5.5	39.8				1.1	44.5	50 <sup>e</sup> MEDIANE
75TH		1.5	11.6	50.5				2.1	56.6	75 <sup>e</sup>
90TH		2.0	20.2	54.9				3.5	68.6	90 <sup>e</sup>
SECONDARY CODE		05L	05L	03L				07L 03L	05L 03L	CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2	07557L NITROGEN DISSOLVED AMMONIA	15102L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313L PHOSPHORUS TOTAL INORG. PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	C MG/L	
<b>SAMPLES(FLAGS)</b>	0402	1(1)		25(1)			1(0)	1(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0440	<b>L.005</b>		<b>.00</b>			<b>.03</b>	<b>20.0</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.005</b>		<b>.034</b>			<b>.03</b>	<b>20.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.015*</b>					<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>.007*</b>					<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				<b>.007</b>					<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				<b>.010</b>					<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				<b>.016</b>					<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				<b>.019</b>					<b>75<sup>e</sup></b>
<b>90TH</b>				<b>.022</b>					<b>90<sup>e</sup></b>
SECONDARY CODE		05L		01L			03L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10GC0004 LAT. 61 D 52 M 30 S LONG. 121 D 18 M 30 S

UTM 10 589000E 6861000 N  
MAY 27 1971 TO/A SEP 23 1973HARRIS RIVER ABOUT 0.25 MILE FROM  
MOUTH NORTHWEST TERRITORIES

	14105L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	08103F OXYGEN DISSOLVED DO	25105L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	26107L IRON DISSOLVED	27302P COBALT EXTRBL.	28302P NICKEL EXTRBL.	
SUBM ID	SiO2 MG/L	Si MG/L	O2 MG/L	MN MG/L	MN MG/L	FE MG/L	CO MG/L	NI MG/L	
SAMPLES(FLAGS) 0402		25(0)	21(1)	15(11)		15(1)			ECHANTILLONS(IND.)
LOW 0440		.98	L.1	L.001		.011			MINIMUM
HIGH		3.77	12.1	.092		.870			MAXIMUM
AVERAGE		2.02	7.7*	.015*		.156*			MOYENNE
STD.DEV.		.55	2.4*	.029*		.222*			ECART-TYPE
PERCNT:10TH		1.49	5.6	L.001		.024			10 <sup>e</sup> PERCNT
25TH		1.81	6.4	L.001		.028			25 <sup>e</sup>
MEDIAN 50TH		1.90	8.0	L.001		.06			50 <sup>e</sup> MEDIANE
75TH		2.39	9.1	.010		.225			75 <sup>e</sup>
90TH		2.46	9.4	.074		.329			90 <sup>e</sup>
SECONDARY CODE			01F	04L 07L		04L 02L			CODE DE SECOURS

	29107L COPPER DISSOLVED	29305P COPPER EXTRBL.	30107L ZINC DISSOLVED	30305P ZINC EXTRBL.	33304L ARSENIC EXTRBL.	34302L SELENIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48302P CADMIUM EXTRBL.	
SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	SE MG/L	MO MG/L	CD MG/L	
SAMPLES(FLAGS) 0402		13(2)	11(1)						ECHANTILLONS(IND.)
LOW 0440		.001	L.001						MINIMUM
HIGH		L.064	.026						MAXIMUM
AVERAGE		.017*	.009*						MOYENNE
STD.DEV.		.022*	.008*						ECART-TYPE
PERCNT:10TH		.001	.002						10 <sup>e</sup> PERCNT
25TH		.003	.005						25 <sup>e</sup>
MEDIAN 50TH		.008	.006						50 <sup>e</sup> MEDIANE
75TH		.015	.011						75 <sup>e</sup>
90TH		L.064	.020						90 <sup>e</sup>
SECONDARY CODE		05L	05L						CODE DE SECOURS

	56301P BARIUM EXTRBL.	82104L LEAD DISSOLVED	82302P LEAD EXTRBL.	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	BA MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0402		12(5)			22(9)				ECHANTILLONS(IND.)
LOW 0440		L.001			L.1				MINIMUM
HIGH		L.207			35.				MAXIMUM
AVERAGE		.019*			5.*				MOYENNE
STD.DEV.		.059*			8.*				ECART-TYPE
PERCNT:10TH		L.001			L.1				10 <sup>e</sup> PERCNT
25TH		.001*			L.1				25 <sup>e</sup>
MEDIAN 50TH		.001*			3.				50 <sup>e</sup> MEDIANE
75TH		.003			4.				75 <sup>e</sup>
90TH		.005			6.				90 <sup>e</sup>
SECONDARY CODE		03L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

MACKENZIE RIVER SUB-BASIN

STATION **00NW10GC0006** LAT. **61 D 54 M 30 S** LONG. **121 D 35 M 30 S**

UTM **10 574000E 6865000N**  
JUN 21, 1972 TO/À AUG 28, 1973

MARTIN RIVER ABOUT 1.5 MILES UPSTREAM  
FROM MOUTH, NORTHWEST TERRITORIES

		02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH PH UNITS	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SUBM ID		USIE/CM								
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>2(0)</b>	<b>3(0)</b>	<b>2(0)</b>	<b>4(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>4(0)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW		<b>65.</b>	<b>56.3</b>	<b>.86</b>	<b>7.9</b>	<b>.24</b>	<b>.010</b>	<b>7.9</b>	<b>1.53</b>	<b>MINIMUM</b>
HIGH		<b>172.</b>	<b>124.2</b>	<b>.86</b>	<b>8.1</b>	<b>.76</b>	<b>.029</b>	<b>11.7</b>	<b>3.06</b>	<b>MAXIMUM</b>
AVERAGE		<b>119.</b>	<b>92.2</b>	<b>.86</b>		<b>.52</b>	<b>.020</b>	<b>9.2</b>	<b>2.27</b>	<b>MOYENNE</b>
STD.DEV.		<b>76.</b>	<b>34.1</b>	<b>.00</b>		<b>.26</b>	<b>.010</b>	<b>1.8</b>	<b>.77</b>	<b>ECART-TYPE</b>
PERCNT:10TH										<b>10<sup>e</sup> PERCNT</b>
25TH					<b>7.9</b>			<b>7.9</b>		<b>25<sup>e</sup></b>
MEDIAN 50TH		<b>119.</b>	<b>96.0</b>	<b>.86</b>	<b>8.0</b>	<b>.56</b>	<b>.022</b>	<b>8.5</b>	<b>2.22</b>	<b>50<sup>e</sup> MEDIANE</b>
75TH					<b>8.1</b>			<b>10.4</b>		<b>75<sup>e</sup></b>
90TH										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HC03 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>4(0)</b>	<b>3(0)</b>	<b>3(0)</b>		<b>ECHANTILLONS(IND.)</b>
LOW		<b>.5</b>	<b>1.9</b>	<b>16.0</b>	<b>4.0</b>	<b>67.</b>	<b>.3</b>	<b>10.1</b>		<b>MINIMUM</b>
HIGH		<b>1.6</b>	<b>5.2</b>	<b>35.4</b>	<b>8.7</b>	<b>165.</b>	<b>1.0</b>	<b>18.2</b>		<b>MAXIMUM</b>
AVERAGE		<b>1.0</b>	<b>3.2</b>	<b>26.57</b>	<b>6.3</b>	<b>130.</b>	<b>.6</b>	<b>13.3</b>		<b>MOYENNE</b>
STD.DEV.		<b>.6</b>	<b>1.7</b>	<b>9.82</b>	<b>2.4</b>	<b>44.</b>	<b>.4</b>	<b>4.3</b>		<b>ECART-TYPE</b>
PERCNT:10TH										<b>10<sup>e</sup> PERCNT</b>
25TH						<b>105.</b>				<b>25<sup>e</sup></b>
MEDIAN 50TH		<b>.9</b>	<b>2.5</b>	<b>28.3</b>	<b>6.2</b>	<b>145.</b>	<b>.4</b>	<b>11.5</b>		<b>50<sup>e</sup> MEDIANE</b>
75TH						<b>156.</b>				<b>75<sup>e</sup></b>
90TH										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>	<b>2(0)</b>		<b>2(2)</b>	<b>2(1)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
LOW		<b>.038</b>	<b>.22</b>	<b>.005</b>	<b>.005</b>		<b>L.001</b>	<b>.001</b>	<b>5.</b>	<b>MINIMUM</b>
HIGH		<b>.040</b>	<b>.470</b>	<b>.005</b>	<b>.018</b>		<b>L.001</b>	<b>L.002</b>	<b>238.</b>	<b>MAXIMUM</b>
AVERAGE		<b>.039</b>	<b>.345</b>	<b>.005</b>	<b>.012</b>			<b>.001*</b>	<b>84.</b>	<b>MOYENNE</b>
STD.DEV.		<b>.001</b>	<b>.177</b>	<b>.000</b>	<b>.009</b>			<b>.001*</b>	<b>133.</b>	<b>ECART-TYPE</b>
PERCNT:10TH										<b>10<sup>e</sup> PERCNT</b>
25TH										<b>25<sup>e</sup></b>
MEDIAN 50TH		<b>.039</b>	<b>.345</b>	<b>.005</b>	<b>.012</b>		<b>L.001</b>	<b>.001*</b>	<b>9.</b>	<b>50<sup>e</sup> MEDIANE</b>
75TH										<b>75<sup>e</sup></b>
90TH										<b>90<sup>e</sup></b>
SECONDARY CODE		07L	07L						04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB BASIN

LAT N 00NW10GC0007 LAT 61 D 55 M 0 S LONG 121 D 35 M 0 S

ITEM 10 575000 6866000  
JUL 07 1971 TO/A SEP 23 1973MARTIN RIVER ABOUT 0.5 MILE UPSTREAM  
FROM MOUTH NORTHWEST TERRITORIES

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3	02075S TURBIDITY LIGHT PENETR. SECCHI DSC	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED	08101F OXYGEN DISSOLVED	14201L SILICON SOL ORTHO SILICATE	
SUBM ID	USIE CM	MG/L	M	PH UNITS	N MG/L	P MG/L	DO MG/L	SI MG/L	
SAMPLES(FLAGS)	0402	19(0)	24(0)	17(4)	26(0)	24(0)	24(2)	20(0)	24(0)
LOW		138.	66.9	.20	6.8	.13	L.003	4.6	.87
HIGH		580.	297.3	G1.00	8.4	1.20	.057	12.5	6.49
AVERAGE		240.	136.9	.59*	.59	.018*	8.4	3.08	MOYENNE
STD.DEV.		101.	58.4	.27*	.29	.011*	2.1	1.46	ECART-TYPE
PERCNT:10TH		142.	72.9	.23	7.5	.24	.005	5.2	1.90
25TH		180.	97.0	.35	8.0	.40	.013	7.0	2.28
MEDIAN 50TH		222.	126.6	.60	8.1	.54	.018	8.2	2.73
75TH		270.	154.1	.86	8.3	.79	.021	9.7	3.23
90TH		330.	205.9	G1.00	8.4	.93	.025	10.9	6.41
SECONDARY CODE									CODE DE SECOURS

	19105L POTASSIUM DISSOLVED	11105L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06202F BICARBONT. LAB CALC.	17207L CHLORIDE DISSOLVED	16305L SULPHATE DISSOLVED	13105L ALUMINUM DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	HC03 MG/L	CL MG/L	SO4 MG/L	AL MG/L	
SAMPLES(FLAGS)	0402	24(0)	24(0)	24(0)	26(0)	23(6)	23(0)		
LOW		.5	2.7	15.6	4.9	73.	.0	10.0	
HIGH		2.2	11.5	87.4	19.2	495.	7.1	21.6	
AVERAGE		1.0	4.8	38.98	9.6	185.	1.1*	14.7	
STD.DEV.		.5	1.9	17.30	3.7	91.	1.5*	3.3	
PERCNT:10TH		.6	3.2	20.4	5.8	98.	.0	11.4	
25TH		.6	3.7	27.70	6.8	123.	L.3	12.0	
MEDIAN 50TH		.9	4.3	36.20	8.6	166.	.6	13.8	
75TH		1.2	5.1	44.70	10.5	232.	1.2	17.6	
90TH		1.7	6.8	59.7	14.6	271.	2.0	19.5	
SECONDARY CODE									CODE DE SECOURS

	25105L MANGANESE DISSOLVED	26104L IRON DISSOLVED	29107L COPPER DISSOLVED	30107L ZINC DISSOLVED	33105L ARSENIC DISSOLVED	48103L CADMIUM DISSOLVED	82104L LEAD DISSOLVED	10401L RESIDUE NONFILTR.	
SUBM ID	MN MG/L	FE MG/L	CU MG/L	ZN MG/L	AS MG/L	CD MG/L	PB MG/L	MG/L	
SAMPLES(FLAGS)	0402	15(6)	15(1)	13(0)	11(0)	12(10)	12(6)	24(0)	
LOW		L.001	L.05	.002	.001	L.001	L.001	2.	
HIGH		.110	1.07	.064	.075	.004	.003	119.	
AVERAGE		.020*	.349*	.015	.013	.001*	.001*	16.	
STD.DEV.		.029*	.276*	.017	.021	.001*	.001*	26.	
PERCNT:10TH		L.001	.06	.002	.004	L.001	L.001	2.	
25TH		L.001	.17	.006	.004	L.001	L.001	4.	
MEDIAN 50TH		.010	.25	.008	.007	L.001	.001	8.	
75TH		.030	.57	.023	.011	L.001	L.002	13.	
90TH		.050	.59	.028	.012	.002	.002	50.	
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10GC0008 LAT. 61 D 52 M 55 S LONG. 121 D 36 M 50 S

UTM 10 572800E 6861600 N  
JUL 20, 1972 TO/A NOV 29, 1972MARTIN RIVER AT UPSTREAM EDGE OF POOL  
ABOUT 400 METRES UPSTREAM FROM BRIDGE

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED	08101F OXYGEN DISSOLVED DO O2	14201L SILICON SOL. ORTHO SILICATE SI	
SUBM ID	USIE/CM	MG/L		PH UNITS	N MG/L	P MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0402	4(0)		4(0)	4(0)	4(0)	1(0)	4(0)	ECHANTILLONS(IND.)
LOW		212.	129.4	6.8	.56	.018	6.8	2.95	MINIMUM
HIGH		289.	188.8	8.2	.87	.025	6.8	6.38	MAXIMUM
AVERAGE		245.	151.1		.77	.020		4.17	MOYENNE
STD.DEV.		35.	28.1		.14	.003		1.57	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		218.	129.7	7.4	.68	.018		3.07	25 <sup>e</sup>
MEDIAN 50TH		239.	143.0	8.1	.82	.019		3.68	50 <sup>e</sup> MEDIANE
75TH		272.	172.5		.86	.022		5.28	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19105L POTASSIUM DISSOLVED	11105L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06202F BICARBONT. LAB CALC.	17207L CHLORIDE DISSOLVED	16305L SULPHATE DISSOLVED	13105L ALUMINUM DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	HC03 MG/L	CL MG/L	SO4 MG/L	AL MG/L	
SAMPLES(FLAGS)	0402	4(0)	4(0)	4(0)	4(0)	4(1)	4(0)		ECHANTILLONS(IND.)
LOW		.4	3.5	37.4	8.2	149.	9.4		MINIMUM
HIGH		1.5	7.3	54.5	12.8	245.	13.5		MAXIMUM
AVERAGE		.7	4.6	44.17	9.9	192.	11.0		MOYENNE
STD.DEV.		.5	1.9	8.01	2.0	40.	1.8		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.5	3.5	37.85	8.5	164.	9.7		25 <sup>e</sup>
MEDIAN 50TH		.6	3.7	42.40	9.3	187.	10.5		50 <sup>e</sup> MEDIANE
75TH		1.0	5.6	50.50	11.3	220.	12.3		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	25105L MANGANESE DISSOLVED	26104L IRON DISSOLVED	29107L COPPER DISSOLVED	30107L ZINC DISSOLVED	33105L ARSENIC DISSOLVED	48103L CADMIUM DISSOLVED	82104L LEAD DISSOLVED	10401L RESIDUE NONFILTR.	
SUBM ID	MN MG/L	FE MG/L	CU MG/L	ZN MG/L	AS MG/L	CD MG/L	PB MG/L	MG/L	
SAMPLES(FLAGS)	0402	4(1)	4(0)	3(0)		4(4)	4(2)	4(1)	ECHANTILLONS(IND.)
LOW		L.001	.53	.002	.001	L.001	L.001	L1.	MINIMUM
HIGH		.030	.88	.012	.007	L.001	.002	9.	MAXIMUM
AVERAGE		.015*	.720	.008	.005		.001*	4.*	MOYENNE
STD.DEV.		.013*	.176	.005	.003		.001*	4.*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.005*	.570	.004		L.001	.001*	1.*	25 <sup>e</sup>
MEDIAN 50TH		.015	.735	.008	.007	L.001	.001*	3.	50 <sup>e</sup> MEDIANE
75TH		.025	.870	.012		L.001	.002*	6.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## MACKENZIE RIVER SUB BASIN

STATION 00NW10GC0009 LAT. 61 D 52 M 55 S LONG. 121 D 36 M 50 S

UTM 10 572800E 6861600 N  
JUL 20 1972 TO/A SEP 12 1973MARTIN RIVER AT DOWNSTREAM EDGE OF  
POOL ABOUT 400 METRES UPSTREAM FROM

		02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETRM. SECCHI DSC M	10301F PH	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
	SUBM ID	USIF CM			PH UNITS					
SAMPLES(FLAGS)	0402	8(0)	8(0)	2(1)	8(0)	8(0)	8(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW		195.	99.9	.93	6.8	.37	.011	2.8	1.42	MINIMUM
HIGH		440.	259.8	G1.00	8.1	1.37	.023	10.5	7.39	MAXIMUM
AVERAGE		259.	156.2	.97*		.73	.017	6.9	3.98	MOYENNE
STD.DEV.		79.	55.2	.05*		.34	.005	2.6	2.13	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		216.	120.9		7.5	.49	.013	5.0	2.70	25 <sup>e</sup>
MEDIAN 50TH		233.	134.8	.97	8.0	.64	.018	7.2	3.22	50 <sup>e</sup> MEDIANE
75TH		271.	189.2		8.0	.93	.022	8.8	5.59	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONATE LAB CALC. HCO3 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0402	8(0)	8(0)	8(0)	8(0)	8(0)	8(1)	9(0)		ECHANTILLONS(IND.)
LOW		.5	2.5	29.2	6.6	145.	L.3	10.0		MINIMUM
HIGH		2.4	5.5	74.7	17.8	447.	2.2	17.6		MAXIMUM
AVERAGE		1.0	3.9	45.65	10.2	211.	.9*	12.9		MOYENNE
STD.DEV.		.8	1.2	16.06	3.7	99.	.6*	3.1		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.6	3.0	35.60	7.8	153.	.4	10.5		25 <sup>e</sup>
MEDIAN 50TH		.6	3.8	38.70	9.3	187.	.7	10.9		50 <sup>e</sup> MEDIANE
75TH		1.3	4.9	56.35	11.8	207.	1.2	15.0		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
	SUBM ID									
SAMPLES(FLAGS)	0402	4(1)	5(0)	5(0)	5(0)		5(5)	5(3)	8(1)	ECHANTILLONS(IND.)
LOW		L.001	.26	.001	.001		L.001	L.001	L1.	MINIMUM
HIGH		.148	.700	.008	.035		L.001	.003	28.	MAXIMUM
AVERAGE		.050*	.528	.004	.011			.002*	7.*	MOYENNE
STD.DEV.		.068*	.175	.003	.014			.001*	10.*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.005*	.460	.003	.001		L.001	.001	1.	25 <sup>e</sup>
MEDIAN 50TH		.025	.57	.004	.004		L.001	L.002	2.	50 <sup>e</sup> MEDIANE
75TH		.094	.65	.005	.015		L.001	L.002	9.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE		07L	07L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10GC0010** LAT. **61 D 53M 5 S** LONG. **121 D 37M 5 S**UTM **10 572600 E 6861800 N**  
JUL 20, 1972 TO/A SEP 12, 1973MARTIN RIVER AT DOWNSTREAM EDGE OF  
POOL BETWEEN BRIDGE CROSSING AND ROAD

		02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
	SUBM ID	USIE/CM			PH UNITS					
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>9(0)</b>	<b>9(0)</b>	<b>5(3)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>8(0)</b>	<b>9(0)</b>	<b>8(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>168.</b>	<b>69.7</b>	<b>.12</b>	<b>5.9</b>	<b>.39</b>	<b>.007</b>	<b>1.2</b>	<b>1.91</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>460.</b>	<b>253.6</b>	<b>G1.00</b>	<b>8.2</b>	<b>1.24</b>	<b>.028</b>	<b>10.5</b>	<b>7.03</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>266.</b>	<b>141.9</b>	<b>.81*</b>		<b>.68</b>	<b>.017</b>	<b>6.5</b>	<b>4.00</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>100.</b>	<b>62.2</b>	<b>.39*</b>		<b>.28</b>	<b>.006</b>	<b>3.2</b>	<b>1.96</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>212.</b>	<b>103.2</b>	<b>.93</b>	<b>7.5</b>	<b>.45</b>	<b>.015</b>	<b>4.4</b>	<b>2.71</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>230.</b>	<b>122.9</b>	<b>G1.00</b>	<b>8.0</b>	<b>.64</b>	<b>.017</b>	<b>7.3</b>	<b>3.21</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>258.</b>	<b>159.5</b>	<b>G1.00</b>	<b>8.1</b>	<b>.81</b>	<b>.019</b>	<b>8.8</b>	<b>5.59</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

		19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HCO3 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>9(0)</b>	<b>9(0)</b>	<b>9(0)</b>	<b>9(0)</b>	<b>8(0)</b>	<b>10(2)</b>	<b>10(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.3</b>	<b>2.5</b>	<b>23.3</b>	<b>2.8</b>	<b>123.</b>	<b>L.3</b>	<b>7.2</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>2.0</b>	<b>5.7</b>	<b>73.7</b>	<b>16.9</b>	<b>449.</b>	<b>3.5</b>	<b>18.4</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.9</b>	<b>3.9</b>	<b>42.23</b>	<b>8.8</b>	<b>208.</b>	<b>.9*</b>	<b>12.6</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.6</b>	<b>1.1</b>	<b>17.59</b>	<b>4.5</b>	<b>101.</b>	<b>1.0*</b>	<b>4.1</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>							<b>L.3</b>	<b>7.7</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.6</b>	<b>2.7</b>	<b>30.3</b>	<b>6.7</b>	<b>156.</b>	<b>.3</b>	<b>10.3</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.6</b>	<b>3.9</b>	<b>35.6</b>	<b>8.3</b>	<b>185.</b>	<b>.6</b>	<b>11.2</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.7</b>	<b>4.4</b>	<b>47.7</b>	<b>9.8</b>	<b>206.</b>	<b>.8</b>	<b>17.3</b>		<b>75<sup>e</sup></b>
<b>90TH</b>							<b>2.7</b>	<b>18.3</b>		<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>										<b>CODE DE SECOURS</b>

		25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>5(1)</b>	<b>5(0)</b>	<b>5(0)</b>	<b>5(0)</b>		<b>5(5)</b>	<b>5(4)</b>	<b>10(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>	<b>.35</b>	<b>.001</b>	<b>.004</b>		<b>L.001</b>	<b>L.001</b>	<b>L.1</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.289</b>	<b>.770</b>	<b>.016</b>	<b>.060</b>		<b>L.001</b>	<b>L.002</b>	<b>81.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.099*</b>	<b>.560</b>	<b>.006</b>	<b>.019</b>			<b>.002*</b>	<b>15.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.122*</b>	<b>.172</b>	<b>.007</b>	<b>.023</b>			<b>.001*</b>	<b>24.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>L.1</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.020</b>	<b>.480</b>	<b>.001</b>	<b>.008</b>		<b>L.001</b>	<b>.001</b>	<b>1.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.030</b>	<b>.50</b>	<b>.004</b>	<b>.009</b>		<b>L.001</b>	<b>L.002</b>	<b>7.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.154</b>	<b>.70</b>	<b>.010</b>	<b>.012</b>		<b>L.001</b>	<b>L.002</b>	<b>15.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>									<b>52.</b>	<b>90<sup>e</sup></b>
<b>SECONDARY CODE</b>		<b>07L</b>	<b>07L</b>						<b>04L</b>	<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## MACKENZIE RIVER SUB BASIN

STATION 00NW10GC0011 LAT. 61 D 53M 0 S LONG. 121 D 37M 5 S

UTM 10 572600E 6861800 N

JUL 20, 1972 TO/A SEP 14 1972

MARTIN RIVER AT UPSTREAM EDGE OF POOL  
BETWEEN BRIDGE CROSSING AND ROAD

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3	02075S TURBIDITY LIGHT PENETR. SECCHI DSC	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED	08101F OXYGEN DISSOLVED DO	14201L SILICON SOL. ORTHO SILICATE	
SUBM ID	USIF CM	MG/L	M	PH UNITS	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0402	2(0)	3(0)	2(1)	3(0)	3(0)	3(0)	2(0)	3(0)	ECHANTILLONS(IND.)
LOW	212.	127.6	.93	8.0	.55	.017	6.0	2.98	MINIMUM
HIGH	252.	158.3	61.00	8.2	.90	.049	8.0	4.16	MAXIMUM
AVERAGE	232.	142.0	.97*		.71	.028	7.0	3.43	MOYENNE
STD.DEV.	28.	15.4	.05*		.18	.018	1.4	.64	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	232.	140.0	.97	8.1	.67	.018	7.0	3.15	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19105L POTASSIUM DISSOLVED	11105L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06202F BICARBONT. LAB CALC.	17207L CHLORIDE DISSOLVED	16305L SULPHATE DISSOLVED	13105L ALUMINUM DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	HC03 MG/L	CL MG/L	SO4 MG/L	AL MG/L	
SAMPLES(FLAGS) 0402	3(0)	3(0)	3(0)	3(0)	3(0)	4(1)	4(0)		ECHANTILLONS(IND.)
LOW	.5	3.6	36.4	8.9	144.	L.3	10.0		MINIMUM
HIGH	.6	4.4	46.9	10.0	192.	2.0	17.3		MAXIMUM
AVERAGE	.6	4.0	41.10	9.6	173.	.9*	13.0		MOYENNE
STD.DEV.	.1	.4	5.34	.6	26.	.8*	3.3		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH						.4*	10.5		25 <sup>e</sup>
MEDIAN 50TH	.6	4.0	40.0	9.7	183.	.6	12.4		50 <sup>e</sup> MEDIANE
75TH						1.3	15.5		75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	25105L MANGANESE DISSOLVED	26104L IRON DISSOLVED	29107L COPPER DISSOLVED	30107L ZINC DISSOLVED	33105L ARSENIC DISSOLVED	48103L CADMIUM DISSOLVED	82104L LEAD DISSOLVED	10401L RESIDUE NONFILTR.	
SUBM ID	MN MG/L	FE MG/L	CU MG/L	ZN MG/L	AS MG/L	CD MG/L	PB MG/L	MG/L	
SAMPLES(FLAGS) 0402	3(1)	3(0)	3(0)	3(0)		3(3)	3(2)	4(0)	ECHANTILLONS(IND.)
LOW	L.001	.55	.005	.001		L.001	L.001	2.	MINIMUM
HIGH	.020	.80	.016	.005		L.001	.002	10.	MAXIMUM
AVERAGE	.014*	.683	.010	.002			.002*	4.	MOYENNE
STD.DEV.	.011*	.126	.006	.002			.001*	4.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH								2.	25 <sup>e</sup>
MEDIAN 50TH	.020	.70	.009	.001		L.001	L.002	3.	50 <sup>e</sup> MEDIANE
75TH								7.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10GC0013** LAT. **61 D 53 M 30 S** LONG. **121 D 36 M 45 S**UTM **10 573000 E 6862800 N**

JAN 30, 1973 TO/À SEP 12, 1973

MARTIN RIVER AT UPSTREAM EDGE OF POOL  
ABOUT 400 METRES DOWNSTREAM FROM

		02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH PH UNITS	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SUBM ID	USIE/CM									
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>5(0)</b>	<b>6(0)</b>	<b>1(1)</b>	<b>5(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>5(0)</b>	<b>5(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>200.</b>	<b>107.9</b>	<b>G1.00</b>	<b>6.7</b>	<b>.37</b>	<b>.010</b>	<b>1.1</b>	<b>2.33</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>455.</b>	<b>255.4</b>	<b>G1.00</b>	<b>8.1</b>	<b>1.29</b>	<b>.020</b>	<b>10.6</b>	<b>7.45</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>285.</b>	<b>175.4</b>			<b>.74</b>	<b>.015</b>	<b>6.7</b>	<b>5.32</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>103.</b>	<b>66.6</b>			<b>.36</b>	<b>.004</b>	<b>3.9</b>	<b>2.39</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>230.</b>	<b>117.9</b>		<b>7.1</b>	<b>.47</b>	<b>.012</b>	<b>4.6</b>	<b>3.18</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>230.</b>	<b>172.5</b>		<b>8.0</b>	<b>.64</b>	<b>.014</b>	<b>7.4</b>	<b>6.38</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>310.</b>	<b>226.2</b>		<b>8.1</b>	<b>1.02</b>	<b>.020</b>	<b>9.9</b>	<b>7.25</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HCO3 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>6(0)</b>	<b>5(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>5(0)</b>	<b>8(2)</b>	<b>8(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.6</b>	<b>2.7</b>	<b>31.9</b>	<b>6.9</b>	<b>170.</b>	<b>L.3</b>	<b>9.2</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>2.0</b>	<b>7.2</b>	<b>73.6</b>	<b>17.4</b>	<b>459.</b>	<b>6.1</b>	<b>17.3</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>1.3</b>	<b>5.0</b>	<b>51.50</b>	<b>11.4</b>	<b>298.</b>	<b>2.0*</b>	<b>13.2</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.7</b>	<b>1.6</b>	<b>19.44</b>	<b>4.4</b>	<b>142.</b>	<b>2.4*</b>	<b>3.5</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.6</b>	<b>4.4</b>	<b>34.9</b>	<b>7.4</b>	<b>205.</b>	<b>.5*</b>	<b>10.6</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>1.3</b>	<b>5.3</b>	<b>50.80</b>	<b>11.1</b>	<b>209.</b>	<b>1.0</b>	<b>11.7</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>1.9</b>	<b>5.7</b>	<b>67.0</b>	<b>14.3</b>	<b>446.</b>	<b>3.3</b>	<b>17.2</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>		<b>3(3)</b>	<b>3(3)</b>	<b>8(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.095</b>	<b>.580</b>	<b>.001</b>	<b>.024</b>		<b>L.001</b>	<b>L.001</b>	<b>2.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.279</b>	<b>.800</b>	<b>.007</b>	<b>.640</b>		<b>L.001</b>	<b>L.001</b>	<b>27.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.176</b>	<b>.680</b>	<b>.003</b>	<b>.238</b>				<b>14.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.094</b>	<b>.111</b>	<b>.003</b>	<b>.348</b>				<b>9.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>5.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.154</b>	<b>.660</b>	<b>.001</b>	<b>.050</b>		<b>L.001</b>	<b>L.001</b>	<b>16.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>21.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE		07L	07L							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10GD0001 LAT 62 D 10 M 30 S LONG. 123 D 23 M 0 S

UTM 10 480000E 6893500 N  
AUG 06 1969 TO/A OCT 30 1974NORTH NAHANNI RIVER ABOUT 5 MILES  
FROM MOUTH NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE CM									
SAMPLES(FLAGS)	0124	16(0)	19(0)	25(0)	26(3)	27(0)	20(0)	26(0)	19(0)	ECHANTILLONS(IND.)
LOW	0056	237.	122.	109.	L5.	.9	7.7	78.0	.0	MINIMUM
HIGH		2312.	1203.	473.	300.	230.	8.3	267.	1.4	MAXIMUM
AVERAGE		688.	291.	214.2	56.*	69.4		140.6		MOYENNE
STD.DEV.		645.	253.	95.7	81.*	74.2		42.4		ECART-TYPE
PERCNT:10TH		294.	146.	128.	L5.	2.2	8.0	86.4	.1	10 <sup>e</sup> PERCNT
25TH		334.	162.	148.	5.	5.5	8.0	110.	.2	25 <sup>e</sup>
MEDIAN 50TH		415.	181.	182.	15.	34.0	8.1	133.0	.6	50 <sup>e</sup> MEDIANE
75TH		641.	348.	257.	60.	110.	8.2	174.	.8	75 <sup>e</sup>
90TH		2219.	624.	296.	225.	200.	8.3	185.	.9	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID										
SAMPLES(FLAGS)	0056	27(0)	27(0)	27(0)	18(0)	19(0)	19(0)	27(0)	27(0)	ECHANTILLONS(IND.)
LOW	0124	.6	2.4	33.3	6.3	0.	97.	.3	26.0	MINIMUM
HIGH		5.0	352.	138.	36.6	0.	325.	557.	179.	MAXIMUM
AVERAGE		1.1	32.0	61.76	14.8	0.	169.	52.8	65.8	MOYENNE
STD.DEV.		1.0	81.3	27.61	8.0	0.	55.	144.6	37.5	ECART-TYPE
PERCNT:10TH		.6	3.7	37.0	6.5	0.	105.	2.3	28.0	10 <sup>e</sup> PERCNT
25TH		.7	4.2	40.9	8.7	0.	127.	3.3	36.9	25 <sup>e</sup>
MEDIAN 50TH		.8	6.6	53.7	12.7	0.	155.	8.4	51.5	50 <sup>e</sup> MEDIANE
75TH		1.1	13.	75.5	18.3	0.	212.	15.2	92.8	75 <sup>e</sup>
90TH		2.2	44.8	95.8	28.3	0.	226.	71.5	114.	90 <sup>e</sup>
SECONDARY CODE				03L 01F				06L	06L 04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07307L NITROGEN DISSOLVED NITRATE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07652L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	14102L SILICA REACTIVE SiO2 MG/L	14201L SILICON SOL. ORTHO SILICATE Si MG/L	
SUBM ID										
SAMPLES(FLAGS)	0124	22(10)	26(0)					27(0)		ECHANTILLONS(IND.)
LOW	0056	.2	.030					2.0		MINIMUM
HIGH		2.1	.340					7.2		MAXIMUM
AVERAGE		.6*	.142					3.79		MOYENNE
STD.DEV.		.4*	.072					1.03		ECART-TYPE
PERCNT:10TH		L.5	.050					2.5		10 <sup>e</sup> PERCNT
25TH		L.5	.090					3.2		25 <sup>e</sup>
MEDIAN 50TH		L.5	.125					3.7		50 <sup>e</sup> MEDIANE
75TH		.6	.19					4.5		75 <sup>e</sup>
90TH		.8	.230					4.6		90 <sup>e</sup>
SECONDARY CODE		02L	06L 06F							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10GD0001** LAT. **62 D 10 M 30 S** LONG. **123 D 23 M 0 S**UTM **10 480000E 6893500 N**  
AUG 06, 1969 TO/À OCT 30, 1974NORTH NAHANNI RIVER ABOUT 5 MILES  
FROM MOUTH, NORTHWEST TERRITORIES

		15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313F PHOSPHORUS TOTAL INORG. PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15403L PHOSPHATE TOTAL	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08101F OXYGEN DISSOLVED DO	
	SUBM ID	P MG/L	P MG/L	P MG/L	P MG/L	PO4 MG/L	C MG/L	C MG/L	O2 MG/L	
<b>SAMPLES(FLAGS)</b>	0124	2(2)	25(23)	14(5)	2(2)		26(1)	26(0)	2(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	L.003	L.002	L.002	L.003		L.5	14.0	11.2	<b>MINIMUM</b>
<b>HIGH</b>		L.003	.006	.50	L.003		175.	89.0	12.0	<b>MAXIMUM</b>
<b>AVERAGE</b>			.002*	.120*			13.9*	27.1	11.6	<b>MOYENNE</b>
<b>STD.DEV.</b>			.001*	.152*			33.5*	14.9	.6	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			L.002	L.003			2.0	16.0		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			L.002	L.003			3.	18.0		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.003	L.002	.058	L.003		6.0	22.0	11.6	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			L.002	.24			13.0	33.0		<b>75<sup>e</sup></b>
<b>90TH</b>			L.003	.30			16.	38.0		<b>90<sup>e</sup></b>
SECONDARY CODE			55F 56L 57L	13L 14L					02S	CODE DE SECOURS

		05105L BORON DISSOLVED	03301P LITHIUM EXTRBLE.	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	
	SUBM ID	B MG/L	LI MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	FE MG/L	FE MG/L	
<b>SAMPLES(FLAGS)</b>	0124	22(3)	25(2)	24(24)	25(21)	1(1)	26(3)	3(1)	26(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	.01	L.005	L.05	L.010	L.010	L.01	L.001	.07	<b>MINIMUM</b>
<b>HIGH</b>		.32	.047	L.05	.018	L.010	4.20	.060	29.0	<b>MAXIMUM</b>
<b>AVERAGE</b>		.05*	.011*		.011*		.245*	.024*	4.818	<b>MOYENNE</b>
<b>STD.DEV.</b>		.06*	.009*		.002*		.814*	.032*	7.665	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		L.02	.005	L.05	L.010		L.010		.08	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.03	.006	L.0500	L.010		.01		.26	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.04	.008	L.0500	L.010		.045	.010	.975	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.05	.011	L.0500	L.010		.14		5.70	<b>75<sup>e</sup></b>
<b>90TH</b>		.08	.024	L.05	.015		.21		13.5	<b>90<sup>e</sup></b>
SECONDARY CODE		02L				05P				CODE DE SECOURS

		28101L NICKEL DISSOLVED	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30304P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	33303L ARSENIC EXTRBLE.	
	SUBM ID	NI MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	AS MG/L	
<b>SAMPLES(FLAGS)</b>	0124	1(1)	25(2)		27(9)		27(2)	20(16)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0056	L.002	L.001		L.001		L.001	L.0005		<b>MINIMUM</b>
<b>HIGH</b>		L.002	.037		.100		.34	.021		<b>MAXIMUM</b>
<b>AVERAGE</b>			.010*		.009*		.029*	.0054*		<b>MOYENNE</b>
<b>STD.DEV.</b>			.009*		.019*		.064*	.0045*		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			.001		L.001		.003	L.0005		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			.004		L.001		.005	L.0050		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			.007		.005		.01	L.0050		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			.015		.010		.03	L.0050		<b>75<sup>e</sup></b>
<b>90TH</b>			.020		.015		.05	.0100		<b>90<sup>e</sup></b>
SECONDARY CODE					06L	05P 04L		04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10GD0001 LAT. 62 D 10 M 30 S LONG. 123 D 23 M 0 S

UTM 10 480000E 6893500 N  
AUG 06 1969 TO/A OCT 30 1974NORTH NAHANNI RIVER ABOUT 5 MILES  
FROM MOUTH NORTHWEST TERRITORIES

	27302P COBALT EXTRBLE.	34301P SELENIUM EXTRBLE.	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48103L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	
SUBM ID	CO MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	BA MG/L	
SAMPLES(FLAGS) 0124	25(6)		24(0)	25(24)		1(1)	25(16)	1(1)	ECHANTILLONS(IND.)
LOW 0056	L.001		.07	L.05		L.001	L.001	L.1	MINIMUM
HIGH	.012		3.90	L.10		L.001	.003	L.1	MAXIMUM
AVERAGE	.004*		.99	.05*			.001*		MOYENNE
STD.DEV.	.003*		.83	.01*			.001*		ECART-TYPE
PERCNT:10TH	L.001		.44	L.05			L.001		10 <sup>e</sup> PERCNT
25TH	.001		.51	L.05			L.001		25 <sup>e</sup>
MEDIAN 50TH	.004		.75	L.05			L.001		50 <sup>e</sup> MEDIANE
75TH	.005		1.12	L.05			.001		75 <sup>e</sup>
90TH	.008		1.60	.05			.002		90 <sup>e</sup>
SECONDARY CODE						01L			CODE DE SECOURS

	74301P TUNGSTEN EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
SUBM ID	W MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0056		6(4)			26(12)	26(1)	16(0)	16(1)	ECHANTILLONS(IND.)
LOW 0124		L.05			L.001	L.05	4.	L.1	MINIMUM
HIGH		.13			.940	.31	1596.	1478.	MAXIMUM
AVERAGE		.06*			.041*	.17*	216.	194.*	MOYENNE
STD.DEV.		.03*			.183*	.07*	394.	365.*	ECART-TYPE
PERCNT:10TH					L.001	.09	6.	2.	10 <sup>e</sup> PERCNT
25TH		L.05			L.001	.11	12.	7.	25 <sup>e</sup>
MEDIAN 50TH		L.05			.004*	.17	86.	71.	50 <sup>e</sup> MEDIANE
75TH		.05			.006	.23	244.	213.	75 <sup>e</sup>
90TH					.021	.29	503.	454.	90 <sup>e</sup>
SECONDARY CODE					01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10HA0001** LAT. **64 D 23M 15 S** LONG. **124 D 53M 0 S**UTM **10 409200E 7141300 N**  
AUG 08, 1969 TO/A OCT 30, 1974KEELE RIVER ABOUT 4 MILES FROM MOUTH,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE /CM								ECHANTILLONS(IND.)
LOW	0124	19(0)	21(0)	27(0)	27(7)	28(0)	21(0)	28(0)	21(0)	MINIMUM
HIGH		185.	112.	99.0	L5.	.3	7.5	51.1	-.6	MAXIMUM
AVERAGE		774.	486.	359.	180.	250.	8.3	164.	.9	MOYENNE
STD.DEV.		438.	250.	208.9	37.*	61.9		109.3		ECART-TYPE
		212.	146.	98.5	54.*	78.3		34.4		
PERCNT:10TH		219.	116.	102.	L5.	.9	7.8	66.6	-.3	10 <sup>e</sup> PERCNT
25TH		262.	139.	126.	L5.	2.2	7.9	78.9	-.1	25 <sup>e</sup>
MEDIAN 50TH		358.	170.	167.	10.	24.5	8.0	104.0	.4	50 <sup>e</sup> MEDIANE
75TH		705.	406.	337.	40.	87.5	8.2	143.0	.6	75 <sup>e</sup>
90TH		760.	481.	346.	150.	215.	8.2	153.	.7	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0124	27(0)	27(0)	27(0)	20(0)	21(0)	21(0)	27(0)	27(0)	MINIMUM
HIGH		.5	2.1	30.0	5.8	0.	62.	2.2	26.0	MAXIMUM
AVERAGE		6.8	31.0	101.	30.9	0.	189.	50.0	215.	MOYENNE
STD.DEV.		1.0	12.3	59.41	15.0	0.	127.	18.2	95.9	ECART-TYPE
		1.2	10.6	27.45	8.0	0.	44.	17.3	65.2	
PERCNT:10TH		.5	2.6	30.6	6.5	0.	81.	3.2	31.3	10 <sup>e</sup> PERCNT
25TH		.6	4.3	36.6	7.3	0.	90.	5.5	40.	25 <sup>e</sup>
MEDIAN 50TH		.7	5.7	48.1	12.9	0.	115.	8.2	61.0	50 <sup>e</sup> MEDIANE
75TH		.9	22.0	92.9	23.1	0.	176.	39.0	172.	75 <sup>e</sup>
90TH		1.0	29.8	98.0	24.9	0.	187.	46.5	195.	90 <sup>e</sup>
SECONDARY CODE				01F				06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 MG/L	07307L NITROGEN DISSOLVED NITRATE N MG/L	07551L NITROGEN DISSOLVED AMMONIA MG/L	07652L NITROGEN DISSOLVED MG/L	07902L NITROGEN PARTICUL. MG/L	14102L SILICA REACTIVE SIO2 MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0124	24(15)	25(0)					26(0)		MINIMUM
HIGH		.2	.020					1.6		MAXIMUM
AVERAGE		2.1	5.40					4.6		MOYENNE
STD.DEV.		.6*	.319					3.33		ECART-TYPE
		.4*	1.060					.85		
PERCNT:10TH		L.5	.040					2.1		10 <sup>e</sup> PERCNT
25TH		L.5	.060					2.7		25 <sup>e</sup>
MEDIAN 50TH		L.5	.130					3.40		50 <sup>e</sup> MEDIANE
75TH		.8	.150					4.1		75 <sup>e</sup>
90TH		1.0	.210					4.3		90 <sup>e</sup>
SECONDARY CODE		02L	06L 06F							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10HA0001 LAT 64 D 23M 15 S LONG 124 D 53M 0 S

UTM 10 409200E 7141300N  
AUG 08 1969 TO/A OCT 30 1974

KEELE RIVER ABOUT 4 MILES FROM MOUTH  
NORTHWEST TERRITORIES

	15100L PHOSPHORUS TOTAL DISSOLVED P	15205L PHOSPHORUS DISSOLVED ORTHO PO4 P	15310F PHOSPHORUS TOTAL INORG PO4 P	15356L PHOSPHORUS DISSOLVED INORG PO4 P	15403L PHOSPHATE TOTAL PO4 MG/L	06301L CARBON TOTAL ORGANIC C	CARBON TOTAL INORGANIC	OXYGEN DISSOLVED DO	
100MM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0124	2(2)	24(23)	13(5)	3(2)		28(1)	28(1)	21(1)	ECHANTILLONS(IND.)
LOW	L.003	L.002	L.003	L.003		L.5	9.0	12.0	MINIMUM
HIGH	L.003	.003	.40	.005		45.0	46.0	13.4	MAXIMUM
AVERAGE		.002*	.082*	.004*		8.0*	20.4	12.7	MOYENNE
STD.DEV.		.000*	.124*	.001*		9.3*	7.3	1.0	ECART-TYPE
PERCNT:10TH		L.002	L.003			2.0	13.0		10 <sup>e</sup> PERCNT
25TH		L.002	L.003			2.0	16.5		25 <sup>e</sup>
MEDIAN 50TH	L.003	L.002	.011	L.003		5.0	19.5	12.7	50 <sup>e</sup> MEDIANE
75TH		L.002	.090			9.5	23.5		75 <sup>e</sup>
90TH		L.003	.28			19.0	28.0		90 <sup>e</sup>
SECONDARY CODE		55F 56L	13L						CODE DE SECOURS

	05105L BORON DISSOLVED B	03301P LITHIUM EXTRBLE. LI	23301P VANADIUM EXTRBLE. V	24302P CHROMIUM EXTRBLE. CR	25101L MANGANESE DISSOLVED MN	25304P MANGANESE EXTRBLE. MN	26102L IRON DISSOLVED FE	26304P IRON EXTRBLE FE	
100MM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0124	23(4)	26(5)	26(24)	25(23)		27(8)	1(0)	27(6)	ECHANTILLONS(IND.)
LOW	.01	L.005	L.05	L.010		.007	.010	L.05	MINIMUM
HIGH	.20	.37	.13	.022		.94	.010	11.0	MAXIMUM
AVERAGE	.04*	.023*	.0538*	.011*		.118*		2.702*	MOYENNE
STD.DEV.	.04*	.071*	.0160*	.003*		.215*		3.605*	ECART-TYPE
PERCNT:10TH	L.02	L.005	L.05	L.010		L.01		L.05	10 <sup>e</sup> PERCNT
25TH	.02	.005	L.05	L.010		L.01		.07	25 <sup>e</sup>
MEDIAN 50TH	.03	.006	L.0500	L.010		.04		.55	50 <sup>e</sup> MEDIANE
75TH	.05	.008	L.05	L.010		.17		3.60	75 <sup>e</sup>
90TH	.09	.029	L.05	L.015		.30		8.90	90 <sup>e</sup>
SECONDARY CODE	02L					05P			CODE DE SECOURS

	28101L NICKEL DISSOLVED NI	28302P NICKEL EXTRBLE. NI	29105L COPPER DISSOLVED CU	29305P COPPER EXTRBLE. CU	30105L ZINC DISSOLVED ZN	30304P ZINC EXTRBLE. ZN	33103L ARSENIC DISSOLVED AS	33303L ARSENIC EXTRBLE AS	
100MM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0124		26(7)		28(12)		28(3)	21(15)		ECHANTILLONS(IND.)
LOW		L.001		L.001		L.001	L.0005		MINIMUM
HIGH		.082		.025		.151	.016		MAXIMUM
AVERAGE		.011*		.007*		.019*	.0050*		MOYENNE
STD.DEV.		.016*		.007*		.029*	.0037*		ECART-TYPE
PERCNT:10TH		L.001		L.001		.002	L.0005		10 <sup>e</sup> PERCNT
25TH		L.001		L.001		.004	L.004		25 <sup>e</sup>
MEDIAN 50TH		.006		.004		L.010	L.005		50 <sup>e</sup> MEDIANE
75TH		.014		.009*		.020	.005		75 <sup>e</sup>
90TH		.018		.020		.041	.009		90 <sup>e</sup>
SECONDARY CODE				06L		05P 04L	34L 01L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10HA0001** LAT. **64 D 23M 15 S** LONG. **124 D 53M 0 S**UTM **10 409200E 7141300 N**  
AUG 08, 1969 TO/A OCT 30, 1974KEELE RIVER ABOUT 4 MILES FROM MOUTH,  
NORTHWEST TERRITORIES

	27302P COBALT EXTRBLE.	34301P SELENIUM EXTRBLE.	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48103L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	
SUBM ID	CO MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	BA MG/L	
<b>SAMPLES(FLAGS)</b> 0124	<b>26(8)</b>		<b>25(0)</b>	<b>26(26)</b>		<b>1(1)</b>	<b>26(12)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>		<b>.20</b>	<b>L.05</b>		<b>L.001</b>	<b>L.001</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>.022</b>		<b>1.30</b>	<b>L.10</b>		<b>L.001</b>	<b>.003</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.004*</b>		<b>.49</b>				<b>.002*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.005*</b>		<b>.33</b>				<b>.001*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.001</b>		<b>.23</b>	<b>L.05</b>			<b>L.001</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.001</b>		<b>.25</b>	<b>L.05</b>			<b>L.001</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.003</b>		<b>.34</b>	<b>L.05</b>			<b>.001</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.005</b>		<b>.65</b>	<b>L.05</b>			<b>.002</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.010</b>		<b>1.10</b>	<b>L.05</b>			<b>.002</b>		<b>90<sup>e</sup></b>
SECONDARY CODE						01L			CODE DE SECOURS

	74301P TUNGSTEN EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
SUBM ID	W MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0124		<b>7(6)</b>			<b>28(12)</b>	<b>28(2)</b>	<b>13(0)</b>	<b>13(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.05</b>			<b>L.001</b>	<b>L.05</b>	<b>4.</b>	<b>2.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.06</b>			<b>.022</b>	<b>.30</b>	<b>612.</b>	<b>550.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.05*</b>			<b>.006*</b>	<b>.10*</b>	<b>220.</b>	<b>185.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.00*</b>			<b>.006*</b>	<b>.05*</b>	<b>194.</b>	<b>177.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>					<b>L.001</b>	<b>.05</b>	<b>13.</b>	<b>8.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.05</b>			<b>L.001</b>	<b>.07</b>	<b>50.</b>	<b>37.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.05</b>			<b>.005</b>	<b>.09</b>	<b>236.</b>	<b>108.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.05</b>			<b>.008*</b>	<b>.12</b>	<b>284.</b>	<b>259.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>					<b>.015</b>	<b>.16</b>	<b>504.</b>	<b>442.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE					01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## MACKENZIE RIVER SUB BASIN

STATION 00NW10HA0006 LAT 63° 17' N

LONG 130° 03' W

ITEM 09 448000: 7018000  
AUG 05 1973 TO/A JUL 12 1977TSICHU RIVER AT CIRQUE CREEK AT AMAX  
MINE, ABOVE CONFLUENCE WITH MACMILLAN

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USF-CM	CACO3 MG/L	REL. UNITS	JTU	PH. UNITS	CACO3 MG/L	PH. UNITS	
SAMPLES(FLAGS)	0018	16(0)	8(7)	16(0)	16(11)	16(0)	16(0)	9(7)	ECHANTILLONS(IND.)
LOW		40.	Q24.	18.6	L5.	6.8	9.0	Q -2.9	MINIMUM
HIGH		117.	39.	53.8	30.	7.7	30.5	-1.7	MAXIMUM
AVERAGE		61.	31.	27.7	7.		16.2		MOYENNE
STD.DEV.		18.	4.*	8.6	7.*		5.3		ECART-TYPE
PERCNT:10TH		45.		19.6	L5.	7.1	9.6		10 <sup>e</sup> PERCNT
25TH		50.	29.	22.4	L5.	7.2	14.2	-2.1	25 <sup>e</sup>
MEDIAN 50TH		59.	31.	26.2	L5.	7.3	15.0	Q -1.9	50 <sup>e</sup> MEDIANE
75TH		61.	33.	28.3	5.	7.5	16.9	Q -1.8	75 <sup>e</sup>
90TH		85.		38.9	18.	7.7	25.4		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBON. (CALCD.)	17206L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L
SAMPLES(FLAGS)	0018	9(0)	9(2)	11(0)	11(0)	16(0)	16(0)	9(7)	16(0)
LOW		.5	L.2	6.9	.2	0.	11.	L.2	5.1
HIGH		.7	.4	11.3	1.5	0.	37.	.2	24.5
AVERAGE		.5	.3*	9.1	.9	0.	20.	.2*	12.0
STD.DEV.		.1	.1*	1.2	.4	0.	7.	.0*	4.1
PERCNT:10TH				7.1	.6	0.	12.		8.8
25TH		.5	.2	8.8	.6	0.	17.	L.2	10.4
MEDIAN 50TH		.5	.3	9.4	.9	0.	18.	L.2	11.4
75TH		.5	.3	9.6	1.2	0.	21.	L.2	12.9
90TH				9.6	1.3	0.	31.		15.5
SECONDARY CODE									03L* CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2	07557L NITROGEN DISSOLVED AMMONIA	07901L NITROGEN PARTICUL.	15406L PHOSPHORUS TOTAL	14105L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC C	08101S OXYGEN DISSOLVED DO	09106L FLUORIDE DISSOLVED	
	SUBM ID	N MG/L	N MG/L	P MG/L	SIO2 MG/L	MG/L	O2 MG/L	F MG/L	
SAMPLES(FLAGS)	0018	7(3)	5(1)	6(0)	5(0)	6(0)	8(4)	1(0)	9(0)
LOW		L.002	L.002	.00	.004	3.8	L1.0	10.0	.1
HIGH		.073	.015	.02	.01	4.4	3.7	10.0	.1
AVERAGE		.027*	.005*	.01	.006	4.1	1.6*		.1
STD.DEV.		.031*	.006*	.01	.003	.2	1.0*		.0
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.002	.002	.01	.004	3.9	L1.0		.1
MEDIAN 50TH		.009	.002	.01	.005	4.0	1.0*		.1
75TH		.065	.005	.01	.007	4.3	2.0		.1
90TH									.1
SECONDARY CODE									03L* CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10HA0006** LAT. **63 D 17M**LONG. **130 D 3M**UTM **09 448000E 7018000 N**  
AUG 05, 1973 TO/À JUL 12, 1977TSICHU RIVER, AT CIRQUE CREEK AT AMAX  
MINE, ABOVE CONFLUENCE WITH MACMILLAN

		05103L BORON DISSOLVED B MG/L	24303P CHROMIUM EXTRBLE. CR MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	27302P COBALT EXTRBLE. CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	
SAMPLES(FLAGS)	0018	2(2)	8(2)	11(9)	16(0)	9(8)	9(6)	16(11)	16(0)	ECHANTILLONS(IND.)
LOW		L.00	L.001	L.01	.008	L.001	L.001	L.001	.001	MINIMUM
HIGH		L.01	.01	.11	.88	.002	.002	.003	.032	MAXIMUM
AVERAGE			.0026*	.02*	.135	.001*	.001*	.001*	.007	MOYENNE
STD.DEV.			.0032*	.03*	.245	.000*	.000*	.001*	.009	ECART-TYPE
PERCNT:10TH				L.01	.009			L.001	.001	10 <sup>e</sup> PERCNT
25TH			.0010*	L.01	.014	L.001	L.001	L.001	.003	25 <sup>e</sup>
MEDIAN 50TH		L.01	.0011	L.01	.037	L.001	L.001	L.001	.004	50 <sup>e</sup> MEDIANE
75TH			.0027	L.01	.070	L.001	.001	.001	.007	75 <sup>e</sup>
90TH				.01	.57			.003	.020	90 <sup>e</sup>
SECONDARY CODE			02P		05P				04P	CODE DE SECOURS

		33103L ARSENIC DISSOLVED AS MG/L	33304L ARSENIC EXTRBLE. AS MG/L	34302L SELENIUM EXTRBLE. SE MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42302P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	48302P CADMIUM EXTRBLE. CD MG/L	74301P TUNGSTEN EXTRBLE. W MG/L	
SAMPLES(FLAGS)	0018	3(3)	8(0)	8(0)		9(5)	8(8)	9(6)	9(9)	ECHANTILLONS(IND.)
LOW		L.005	.0004	.0001		L.0005	L.00	L.000	10.	MINIMUM
HIGH		L.005	.003	.0007		.002	L.00	.000	10.	MAXIMUM
AVERAGE			.0008	.0004		.0009*		.000*		MOYENNE
STD.DEV.			.0009	.0002		.0005*		.000*		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH			.0005	.0003		L.0005	L.00	L.000	10.	25 <sup>e</sup>
MEDIAN 50TH		L.005	.0005	.0004		L.001	L.00	L.000	10.	50 <sup>e</sup> MEDIANE
75TH			.0007	.0005		.001	L.00	.000	10.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		80311P MERCURY EXTRBLE. HG UG/L	82302P LEAD EXTRBLE. PB MG/L	06606P CYANIDE CN MG/L	06536P PHENOLIC MATERIAL PHENOL MG/L	10401L RESIDUE NONFILTR. MG/L	10451L RESIDUE FILTRABLE MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	10551L RESIDUE FIXED FILTRABLE MG/L	
SAMPLES(FLAGS)	0018	8(8)	16(13)	7(4)	4(4)	5(2)	5(0)	5(3)	5(0)	ECHANTILLONS(IND.)
LOW		L.05	L.001	L.000	L.000	L1.	36.	L1.	18.	MINIMUM
HIGH		L.05	.005	L.005	L.002	3.	60.	2.	36.	MAXIMUM
AVERAGE			.001*	.002*		2.*	48.	1.*	28.	MOYENNE
STD.DEV.			.001*	.002*		1.*	9.	0.*	8.	ECART-TYPE
PERCNT:10TH			L.001							10 <sup>e</sup> PERCNT
25TH		L.05	L.001	.001	L.000	L1.	42.	L1.	23.	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.001	.001	L.000	2.	51.	L1.	28.	50 <sup>e</sup> MEDIANE
75TH		L.05	L.001	L.005	L.001	2.	52.	1.	36.	75 <sup>e</sup>
90TH			.001							90 <sup>e</sup>
SECONDARY CODE				01P	31P					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## MACKENZIE RIVER SUB BASIN

STATION 00NW10HA0007 LAT. 63 D 18M

LONG. 129 D 48M

UTM 09 460000 7020000  
AUG 05 1973 TO: A JUL 12 1977TSICHU RIVER AT NORTH CANOL ROAD  
CROSSING AMAX MINE, MACMILLAN PASS.

	026411 SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00213L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0018 15(0)	10(6)	15(0)	15(8)	15(0)	15(0)	15(0)		ECHANTILLONS(IND.)
LOW	41.	26.	19.0	L5.	.2	7.1	9.4		MINIMUM
HIGH	145.	84.	82.8	25.	9.1	8.0	38.2		MAXIMUM
AVERAGE	78.	47.*	37.0	7.*	1.5		17.8		MOYENNE
STD.DEV.	27.	17.*	15.6	6.*	2.5		7.0		ECART-TYPE
PERCNT:10TH	47.	30.	21.4	L5.	.3	7.2	11.0		10 <sup>e</sup> PERCNT
25TH	62.	Q34.	28.2	L5.	.3	7.2	12.5		25 <sup>e</sup>
MEDIAN 50TH	74.	46.	31.7	L5.	.4	7.4	17.1		50 <sup>e</sup> MEDIANE
75TH	93.	51.	43.2	5.	1.2	7.5	19.9		75 <sup>e</sup>
90TH	112.	72.	50.7	18.	5.0	7.6	24.3		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0018 11(0)	11(0)	11(0)	11(0)	15(0)	15(0)	11(7)	15(0)	ECHANTILLONS(IND.)
LOW	.3	.2	5.3	1.4	0.	11.	L2	9.4	MINIMUM
HIGH	.7	.6	23.1	6.1	0.	47.	.3	31.	MAXIMUM
AVERAGE	.4	.4	11.7	2.7	0.	22.	.2*	18.5	MOYENNE
STD.DEV.	.1	.1	4.7	1.3	0.	9.	.0*	6.1	ECART-TYPE
PERCNT:10TH	.3	.2	7.0	1.7	0.	13.	L2	12.5	10 <sup>e</sup> PERCNT
25TH	.3	.2	8.8	1.8	0.	15.	L2	13.0	25 <sup>e</sup>
MEDIAN 50TH	.3	.3	11.3	2.4	0.	21.	L2	18.5	50 <sup>e</sup> MEDIANE
75TH	.5	.5	13.2	3.3	0.	24.	.2	23.0	75 <sup>e</sup>
90TH	.6	.6	14.9	3.7	0.	30.	.2	26.6	90 <sup>e</sup>

SECONDARY CODE

03L CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07557L NITROGEN DISSOLVED AMMONIA N MG/L	07901L NITROGEN PARTICUL. N MG/L	15406L PHOSPHORUS TOTAL P MG/L	14105L SILICA REACTIVE SiO2 MG/L	06601L CARBON TOTAL ORGANIC C MG/L	08101S OXYGEN DISSOLVED DO O2 MG/L	09106L FLUORIDE DISSOLVED F MG/L	
SAMPLES(FLAGS)	0018 9(0)	6(2)	8(0)	5(0)	7(0)	10(4)	1(0)	10(0)	ECHANTILLONS(IND.)
LOW	.015	L.002	.00	.002	3.8	.9	8.8	.0	MINIMUM
HIGH	.089	.008	.02	.017	4.8	2.7	8.8	.1	MAXIMUM
AVERAGE	.042	.004*	.01	.006	4.2	1.3*		.1	MOYENNE
STD.DEV.	.027	.002*	.00	.006	.3	.5*		.0	ECART-TYPE
PERCNT:10TH						.9*		.1	10 <sup>e</sup> PERCNT
25TH	.026	L.002	.01	.002	4.0	L1.0		.1	25 <sup>e</sup>
MEDIAN 50TH	.035	.003	.01	.004	4.1	1.2*		.1	50 <sup>e</sup> MEDIANE
75TH	.048	.005	.01	.005	4.4	1.3		.1	75 <sup>e</sup>
90TH						2.1		.1	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10HA0007** LAT. **63 D 18 M**LONG. **129 D 48 M**UTM **09 460000 E 7020000 N**

AUG 05, 1973 TO/À JUL 12, 1977

TSICHU RIVER AT NORTH CANOL ROAD  
CROSSING. AMAX MINE. MACMILLAN PASS.

	05103L BORON DISSOLVED	24303P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	
SUBM ID	B MG/L	CR MG/L	MN MG/L	FE MG/L	CO MG/L	NI MG/L	CU MG/L	ZN MG/L	
<b>SAMPLES(FLAGS)</b> 0018	1(1)	11(1)	11(9)	17(0)	12(7)	12(1)	17(3)	17(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.00</b>	<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.006</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.00</b>	<b>.02</b>	<b>.06</b>	<b>1.2</b>	<b>.004</b>	<b>.013</b>	<b>.010</b>	<b>.08</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.0058*</b>	<b>.02*</b>	<b>.194</b>	<b>.001*</b>	<b>.005*</b>	<b>.002*</b>	<b>.019</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.0060*</b>	<b>.02*</b>	<b>.313</b>	<b>.001*</b>	<b>.003*</b>	<b>.003*</b>	<b>.018</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.001</b>	<b>L.01</b>	<b>.021</b>	<b>L.001</b>	<b>.002</b>	<b>L.001</b>	<b>.006</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.001</b>	<b>L.01</b>	<b>.03</b>	<b>L.001</b>	<b>.003</b>	<b>.001</b>	<b>.009</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.0022</b>	<b>L.01</b>	<b>.06</b>	<b>L.001</b>	<b>.006</b>	<b>.001</b>	<b>.014</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.0096</b>	<b>L.01</b>	<b>.17</b>	<b>.002</b>	<b>.007</b>	<b>.002</b>	<b>.024</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.01</b>	<b>.05</b>	<b>.70</b>	<b>.002</b>	<b>.007</b>	<b>.008</b>	<b>.03</b>	<b>90<sup>e</sup></b>
SECONDARY CODE		02P		05P				04P	CODE DE SECOURS

	33103L ARSENIC DISSOLVED	33304L ARSENIC EXTRBLE.	34302L SELENIUM EXTRBLE.	38301P STRONTIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	74301P TUNGSTEN EXTRBLE.	
SUBM ID	AS MG/L	AS MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	W MG/L	
<b>SAMPLES(FLAGS)</b> 0018	1(1)	10(0)	10(0)		12(9)	10(10)	12(4)	11(11)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.005</b>	<b>.0001</b>	<b>.0003</b>		<b>L.0005</b>	<b>L.00</b>	<b>L.000</b>	<b>10.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>L.005</b>	<b>.0045</b>	<b>.0009</b>		<b>.005</b>	<b>L.00</b>	<b>.001</b>	<b>10.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.0007</b>	<b>.0005</b>		<b>.0010*</b>		<b>.000*</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.0013</b>	<b>.0002</b>		<b>.0013*</b>		<b>.000*</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.0001</b>	<b>.0004</b>		<b>L.0005</b>	<b>L.00</b>	<b>L.000</b>	<b>10.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.0002</b>	<b>.0004</b>		<b>L.0005</b>	<b>L.00</b>	<b>L.000</b>	<b>10.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.0003</b>	<b>.0005</b>		<b>.0005*</b>	<b>L.00</b>	<b>.000</b>	<b>10.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.0004</b>	<b>.0006</b>		<b>L.0010</b>	<b>L.00</b>	<b>.001</b>	<b>10.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.0025</b>	<b>.0008</b>		<b>.001</b>	<b>L.00</b>	<b>.001</b>	<b>10.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	80311P MERCURY EXTRBLE.	82302P LEAD EXTRBLE.	06606P CYANIDE	06536P PHENOLIC MATERIAL	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	HG MG/L	PB MG/L	CN MG/L	PHENOL MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0018	10(9)	17(10)	9(6)	5(5)	7(2)	6(0)	7(4)	6(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.05</b>	<b>L.001</b>	<b>L.000</b>	<b>L.000</b>	<b>L.1</b>	<b>36.</b>	<b>L.1</b>	<b>27.</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.18</b>	<b>.006</b>	<b>L.005</b>	<b>L.000</b>	<b>47.</b>	<b>84.</b>	<b>38.</b>	<b>62.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.06*</b>	<b>.002*</b>	<b>.002*</b>		<b>11.*</b>	<b>64.</b>	<b>8.*</b>	<b>40.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.04*</b>	<b>.001*</b>	<b>.002*</b>		<b>17.*</b>	<b>21.</b>	<b>14.*</b>	<b>14.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.05</b>	<b>L.001</b>	<b>.001</b>	<b>L.000</b>	<b>L.1</b>	<b>44.</b>	<b>L.1</b>	<b>28.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.05</b>	<b>L.001</b>	<b>.001</b>	<b>L.000</b>	<b>L.1</b>	<b>44.</b>	<b>L.1</b>	<b>28.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.05</b>	<b>L.001</b>	<b>.001</b>	<b>L.000</b>	<b>4.</b>	<b>68.</b>	<b>L.1</b>	<b>36.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>L.05</b>	<b>.001</b>	<b>L.002</b>	<b>L.000</b>	<b>18.</b>	<b>84.</b>	<b>14.</b>	<b>49.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.11*</b>	<b>.003</b>							<b>90<sup>e</sup></b>
SECONDARY CODE			01P						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## MACKENZIE RIVER SUB BASIN

00NW10HA0008 AT 63 16M 130 0M

ITEM 09 450000 7016000  
AUG 05 1973 TO/A JUL 12 1977UNNAMED CREEK AT NORTH CANOL ROAD  
CROSSING. AMAX MINE MACMILLAN PASS.

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE /CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS) 0018	15(0)	9(7)	15(0)	15(9)	15(0)	15(0)	15(0)	8(6)	ECHANTILLONS(IND.)
LOW	64.	Q40.	28.0	L5.	.3	5.6	.0	Q-3.8	MINIMUM
HIGH	134.	Q74.	60.8	10.	4.4	7.4	17.3	-1.6	MAXIMUM
AVERAGE	94.	56.*	40.3	5.*	2.0		6.2		MOYENNE
STD.DEV.	21.	12.*	10.3	1.*	1.2		5.3		ECART-TYPE
PERCNT:10TH	66.		28.6	L5.	.4	5.7	.5		10 <sup>e</sup> PERCNT
25TH	74.	Q46.	31.4	L5.	1.0	6.4	1.6	-2.9	25 <sup>e</sup>
MEDIAN 50TH	89.	Q55.	37.0	L5.	1.9	6.8	5.2	-2.6	50 <sup>e</sup> MEDIANE
75TH	112.	Q65.	48.7	5.	2.7	7.1	8.1	-2.1	75 <sup>e</sup>
90TH	122.		57.0	5.	3.9	7.2	16.5		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS) 0018	9(0)	9(2)	11(0)	11(0)	15(0)	15(0)	9(7)	15(0)	ECHANTILLONS(IND.)
LOW	.3	L2	7.0	.9	0.	0.	L2	20.1	MINIMUM
HIGH	.4	.4	17.5	4.2	0.	21.	.2	42.2	MAXIMUM
AVERAGE	.4	.3*	12.3	2.7	0.	8.	.2*	33.5	MOYENNE
STD.DEV.	.1	.1*	3.1	1.1	0.	6.	.0*	6.8	ECART-TYPE
PERCNT:10TH			9.5	1.7	0.	1.		23.	10 <sup>e</sup> PERCNT
25TH	.3	.2	9.6	1.8	0.	2.	L2	28.5	25 <sup>e</sup>
MEDIAN 50TH	.4	.3	12.4	2.7	0.	6.	L2	36.5	50 <sup>e</sup> MEDIANE
75TH	.4	.3	14.9	3.6	0.	10.	L2	39.0	75 <sup>e</sup>
90TH			16.0	4.1	0.	20.		41.0	90 <sup>e</sup>

SECONDARY CODE

03L CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2	07557L NITROGEN DISSOLVED AMMONIA	07901L NITROGEN PARTICUL.	15406L PHOSPHORUS TOTAL	14105L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101S OXYGEN DISSOLVED DO	09106L FLUORIDE DISSOLVED	
SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	SIO2 MG/L	C MG/L	O2 MG/L	F MG/L	
SAMPLES(FLAGS) 0018	9(0)	6(0)	8(0)	5(1)	7(0)	9(7)	1(0)	10(0)	ECHANTILLONS(IND.)
LOW	.038	.002	.01	L.002	4.0	L1.0	8.8	.1	MINIMUM
HIGH	.127	.016	.09	.015	20.	1.6	8.8	.1	MAXIMUM
AVERAGE	.059	.009	.02	.007*	6.6	1.1*		.1	MOYENNE
STD.DEV.	.028	.005	.03	.005*	5.9	.2*		.0	ECART-TYPE
PERCNT:10TH								.1	10 <sup>e</sup> PERCNT
25TH	.048	.006	.01	.004	4.2	L1.0		.1	25 <sup>e</sup>
MEDIAN 50TH	.050	.008	.01	.006	4.4	L1.0		.1	50 <sup>e</sup> MEDIANE
75TH	.053	.015	.02	.006	4.8	L1.0		.1	75 <sup>e</sup>
90TH								.1	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10HA0008 LAT. 63 D 16 M

LONG. 130 D 0 M

UTM 09 450000 E 7016000 N  
AUG 05, 1973 TO/A JUL 12, 1977

UNNAMED CREEK AT NORTH CANOL ROAD  
CROSSING. AMAX MINE. MACMILLAN PASS.

	05103L BORON DISSOLVED	24303P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	
SUBM	B	CR	MN	FE	CO	NI	CU	ZN	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0018	2(2)	9(0)	10(1)	15(0)	10(2)	6(0)	13(1)	15(0)
LOW	L.00	.001	L.01	.046	.000	.010	L.001	.05	MINIMUM
HIGH	L.01	.02	.11	1.6	.005	.051	.020	.18	MAXIMUM
AVERAGE		.0053	.06*	.622	.003*	.034	.010*	.115	MOYENNE
STD.DEV.		.0059	.03*	.412	.002*	.016	.005*	.042	ECART-TYPE
PERCNT:10TH			.01*	.27	.001*		.005	.059	10 <sup>e</sup> PERCNT
25TH		.002	.05	.41	L.001	.023	.006	.08	25 <sup>e</sup>
MEDIAN 50TH	L.01	.0028	.06	.47	.004	.035	.010	.13	50 <sup>e</sup> MEDIANE
75TH		.005	.08	.69	.005	.050	.014	.15	75 <sup>e</sup>
90TH			.10	1.4	.005		.017	.17	90 <sup>e</sup>
SECONDARY CODE		02P		05P				04P	CODE DE SECOURS

	33103L ARSENIC DISSOLVED	33304L ARSENIC EXTRBLE.	34302L SELENIUM EXTRBLE.	38301P STRONTIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	74301P TUNGSTEN EXTRBLE.	
SUBM	AS	AS	SE	SR	MO	AG	CD	W	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0018	2(2)	10(1)	10(0)	10(9)	8(8)	10(0)	9(9)	ECHANTILLONS(IND.)
LOW	L.005	L.0001	.0004		L.0005	L.00	.000	10.	MINIMUM
HIGH	L.005	.0009	.0008		L.001	L.00	.002	10.	MAXIMUM
AVERAGE		.0003*	.0006		.0007*		.001		MOYENNE
STD.DEV.		.0002*	.0001		.0003*		.001		ECART-TYPE
PERCNT:10TH		.0001*	.0004		L.0005		.000		10 <sup>e</sup> PERCNT
25TH		.0001	.0005		L.0005	L.00	.001	10.	25 <sup>e</sup>
MEDIAN 50TH	L.005	.0002	.0006		.0005*	L.00	.001	10.	50 <sup>e</sup> MEDIANE
75TH		.0003	.0007		L.001	L.00	.002	10.	75 <sup>e</sup>
90TH		.0007	.0008		L.0010		.002		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	80311P MERCURY EXTRBLE.	82302P LEAD EXTRBLE.	06606P CYANIDE	06536P PHENOLIC MATERIAL	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM	HG	PB	CN	PHENOL					
ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0018	9(9)	15(9)	9(7)	6(6)	7(0)	6(0)	7(2)	6(0)
LOW	L.05	L.001	L.000	L.000	L.000	2.	51.	L.1	30.
HIGH	L.05	.010	L.005	L.002		11.	86.	11.	57.
AVERAGE		.002*	.002*			6.	66.	4.*	45.
STD.DEV.		.002*	.002*			3.	13.	3.*	11.
PERCNT:10TH		L.001							10 <sup>e</sup> PERCNT
25TH	L.05	L.001	L.000	L.000	3.	60.	L.1	36.	25 <sup>e</sup>
MEDIAN 50TH	L.05	L.001	.001	L.000	7.	62.	5.	47.	50 <sup>e</sup> MEDIANE
75TH	L.05	.003	L.002	L.000	10.	76.	5.	54.	75 <sup>e</sup>
90TH		.004							90 <sup>e</sup>
SECONDARY CODE			01P	31P					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 79

## MACKENZIE RIVER SUB BASIN

STATION 00NW10HA0009 LAT 63 D 16 M LONG. 130 D 6 M

UTM 09 444000 E 7016000 N  
AUG 05 1973 TO 'A JUL 12 1977DALE CREEK AT ACCESS RD TO AMAX MINE.  
MACMILLAN PASS

	12041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00212L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS) 0018	15(0)	9(5)	15(0)	15(8)	15(0)	15(0)	15(0)	9(5)	ECHANTILLONS(IND.)
LOW	46.	Q38.	21.6	L5.	.2	7.1	14.3	Q -1.6	MINIMUM
HIGH	209.	118.	103.	30.	9.1	8.0	68.1	-.2	MAXIMUM
AVERAGE	114.	69.*	54.5	8.*	1.1		35.0		MOYENNE
STD.DEV.	47.	29.*	23.2	7.*	2.2		15.4		ECART-TYPE
PERCNT:10TH	65.		31.2	L5.	.2	7.3	19.7		10 <sup>e</sup> PERCNT
25TH	84.	Q48.	39.0	L5.	.3	7.3	24.0	Q -1.5	25 <sup>e</sup>
MEDIAN 50TH	98.	Q60.	45.4	L5.	.6	7.7	29.6	Q -1.2	50 <sup>e</sup> MEDIANE
75TH	144.	84.	67.7	5.	.7	7.7	43.0	-.7	75 <sup>e</sup>
90TH	202.		97.2	20.	1.0	7.9	64.8		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS) 0018	9(0)	9(1)	10(0)	10(0)	15(0)	15(0)	9(4)	15(0)	ECHANTILLONS(IND.)
LOW	.4	L.2	9.3	1.1	0.	17.	L.2	5.9	MINIMUM
HIGH	1.0	.7	35.0	3.8	0.	83.	.3	36.4	MAXIMUM
AVERAGE	.6	.4*	19.6	2.4	0.	43.	.2*	20.0	MOYENNE
STD.DEV.	.2	.2*	8.8	.9	0.	19.	.1*	8.1	ECART-TYPE
PERCNT:10TH			11.0	1.3	0.	24.		13.2	10 <sup>e</sup> PERCNT
25TH	.5	.2	13.3	1.8	0.	29.	L.2	14.5	25 <sup>e</sup>
MEDIAN 50TH	.6	.5	15.6	2.3	0.	36.	.2	18.1	50 <sup>e</sup> MEDIANE
75TH	.7	.6	24.4	3.1	0.	52.	.3	25.8	75 <sup>e</sup>
90TH			33.9	3.7	0.	79.		32.	90 <sup>e</sup>

SECONDARY CODE

03L CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2	07557L NITROGEN DISSOLVED AMMONIA	07901L NITROGEN PARTICUL.	15406L PHOSPHORUS TOTAL	14105L SILICA REACTIVE	06001L CARBON TOTAL ORGANIC	08101S OXYGEN DISSOLVED DO	09196L FLUORIDE DISSOLVED	
SUBM ID	N MG/L	N MG/L	N MG/L	P MG/L	SiO2 MG/L	C MG/L	O2 MG/L	F MG/L	
SAMPLES(FLAGS) 0018	7(0)	5(1)	7(0)	5(0)	7(0)	9(4)	1(0)	9(0)	ECHANTILLONS(IND.)
LOW	.020	L.002	.01	.003	3.4	L1.0	14.2	.0	MINIMUM
HIGH	.113	.018	.01	.009	18.0	2.2	14.2	.2	MAXIMUM
AVERAGE	.056	.007*	.01	.006	6.4	1.5*		.1	MOYENNE
STD.DEV.	.035	.006*	.00	.002	5.2	.5*		.0	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.023	.004	.01	.005	3.5	L1.0		.1	25 <sup>e</sup>
MEDIAN 50TH	.044	.006	.01	.006	4.2	1.0		.1	50 <sup>e</sup> MEDIANE
75TH	.091	.007	.01	.007	6.7	1.9		.1	75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10HA0009 LAT. 63 D 16M

LONG. 130 D 6M

UTM 09 444000E 7016000 N  
AUG 05, 1973 TO/A JUL 12, 1977DALE CREEK AT ACCESS RD TO AMAX MINE.  
MACMILLAN PASS.

	05103L BORON DISSOLVED	24303P CHROMIUM EXTRBLE.	25304P MANGANESE EXTRBLE.	26304P IRON EXTRBLE.	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	
SUBM	B	CR	MN	FE	CO	NI	CU	ZN	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0018	1(1)	10(3)	12(9)	17(0)	11(10)	11(3)	17(11)	17(0)	ECHANTILLONS(IND.)
LOW	L.00	L.0005	L.01	.055	L.001	L.001	L.001	.003	MINIMUM
HIGH	L.00	.02	.05	1.0	.001	.003	.005	.024	MAXIMUM
AVERAGE		.0047*	.01*	.186	.001*	.002*	.001*	.008	MOYENNE
STD.DEV.		.0062*	.01*	.233	.000*	.001*	.001*	.005	ECART-TYPE
PERCNT:10TH		.0006*	L.01	.060	L.001	L.001	L.001	.005	10 <sup>e</sup> PERCNT
25TH		L.001	L.01	.07	L.001	L.001	L.001	.006	25 <sup>e</sup>
MEDIAN 50TH		.0015	L.01	.11	L.001	.001	L.001	.006	50 <sup>e</sup> MEDIANE
75TH		.0077	.01*	.15	L.001	.002	.001	.008	75 <sup>e</sup>
90TH		.0148	.01	.45	L.001	.003	.002	.018	90 <sup>e</sup>
SECONDARY CODE		02P		05P					CODE DE SECOURS

	33103L ARSENIC DISSOLVED	33304L ARSENIC EXTRBLE.	34302L SELENIUM EXTRBLE.	38301P STRONTIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48302P CADMIUM EXTRBLE.	74301P TUNGSTEN EXTRBLE.	
SUBM	AS	AS	SE	SR	MO	AG	CD	W	
ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0018	1(1)	9(0)	8(0)		11(0)	9(9)	11(7)	11(11)	ECHANTILLONS(IND.)
LOW	L.005	.0005	.0006		.0006	L.00	L.000	10.	MINIMUM
HIGH	L.005	.0088	.0012		.003	L.00	.001	10.	MAXIMUM
AVERAGE		.0019	.0009		.0013		.000*		MOYENNE
STD.DEV.		.0026	.0002		.0007		.000*		ECART-TYPE
PERCNT:10TH					.0008		L.000	10.	10 <sup>e</sup> PERCNT
25TH		.0007	.0009		.0008	L.00	L.000	10.	25 <sup>e</sup>
MEDIAN 50TH		.0010	.0010		.001	L.00	L.000	10.	50 <sup>e</sup> MEDIANE
75TH		.0014	.0010		.002	L.00	L.000	10.	75 <sup>e</sup>
90TH					.0020		.001	10.	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	80311P MERCURY EXTRBLE.	82302P LEAD EXTRBLE.	06606P CYANIDE	06536P PHENOLIC MATERIAL	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM	HG	PB	CN	PHENOL					
ID	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0018	9(8)	17(15)	8(5)	5(5)	6(0)	5(0)	6(3)	5(0)	ECHANTILLONS(IND.)
LOW	L.05	L.001	L.000	L.000	1.	58.	L.1.	36.	MINIMUM
HIGH	.06	.002	L.005	L.002	22.	98.	20.	74.	MAXIMUM
AVERAGE	.05*	.001*	.002*		5.	78.	5.*	57.	MOYENNE
STD.DEV.	.00*	.000*	.002*		8.	17.	8.*	15.	ECART-TYPE
PERCNT:10TH		L.001							10 <sup>e</sup> PERCNT
25TH	L.05	L.001	.001	L.000	1.	68.	L.1.	51.	25 <sup>e</sup>
MEDIAN 50TH	L.05	L.001	.001*	L.000	2.	71.	1.*	57.	50 <sup>e</sup> MEDIANE
75TH	L.05	L.001	L.003	L.000	4.	94.	4.	68.	75 <sup>e</sup>
90TH		.001							90 <sup>e</sup>
SECONDARY CODE			01P	31P					CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10HB0004 LAT. 64 D 16 M 0 S LONG. 124 D 34 M 30 S

UTM 10 423700E 7127500 N  
JUL 15, 1969 TO/A OCT 30 1974REDSTONE RIVER AT MOUTH  
NORTHWEST TERRITORIES

	02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	13101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0124	27(0)	30(0)	36(0)	33(7)	36(1)	30(0)	36(0)	30(0)
LOW	0001	217.	106.	89.8	L5.	1.0	7.7	54.9	-6
HIGH		736.	461.	349.	350.	1000.	8.6	166.	1.1
AVERAGE		418.	224.	190.3	52.*	131.2*		113.9	
STD.DEV.		182.	119.	85.4	86.*	182.3*		30.5	
PERCNT:10TH		256.	131.	116.	L5.	1.8	7.9	83.0	-2
25TH		273.	144.	126.0	5.	4.7	8.0	90.7	.1
MEDIAN 50TH		333.	165.	148.0	15.	94.5	8.2	103.0	.4
75TH		624.	265.	236.5	30.	185.0	8.3	142.5	.6
90TH		729.	451.	338.	200.	270.	8.3	157.	.9
SECONDARY CODE			03F	11F	73F		01F		CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0124	36(0)	36(0)	36(0)	29(0)	30(0)	30(0)	36(0)	36(0)
LOW	0001	.5	3.2	7.9	7.1	0.	67.	2.5	18.6
HIGH		1.0	29.3	113.	78.5	3.	202.	44.5	182.
AVERAGE		.7	11.2	48.24	16.6	0.	136.	15.1	75.4
STD.DEV.		.1	8.6	22.73	13.8	1.	38.	13.9	55.0
PERCNT:10TH		.6	4.5	30.0	8.2	0.	101.	4.5	30.5
25TH		.6	5.1	33.90	9.4	0.	109.	5.5	35.8
MEDIAN 50TH		.7	6.3	40.35	11.6	0.	123.	8.2	46.5
75TH		.8	17.5	58.05	17.3	0.	162.	23.5	111.0
90TH		.9	26.9	89.4	29.1	0.	193.	39.5	172.
SECONDARY CODE				01F			06L	06L 04L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	07307L NITROGEN DISSOLVED NITRATE	07551L NITROGEN DISSOLVED AMMONIA	07652L NITROGEN DISSOLVED	07902L NITROGEN PARTICUL.	14102L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	
SUBM ID	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	N MG/L	SiO2 MG/L	Si MG/L	
SAMPLES(FLAGS)	0124	24(13)	34(0)		3(3)		35(0)		
LOW	0001	.2	.020		L1		1.7		
HIGH		5.1	.380		L1		4.9		
AVERAGE		.8*	.123				3.40		
STD.DEV.		.9*	.071				.82		
PERCNT:10TH		L.5	.063				2.5		
25TH		L.5	.070				2.9		
MEDIAN 50TH		L.5	.105		L.1		3.3		
75TH		.8	.150				4.0		
90TH		1.2	.21				4.6		
SECONDARY CODE		02L	06F 06L						CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960-1979

MACKENZIE RIVER SUB-BASIN

STATION **00NW10HB0004** LAT. **64 D 16 M 0 S** LONG. **124 D 34 M 30 S**

UTM **10 423700E 7127500 N**  
JUL 15, 1969 TO/A OCT 30, 1974

REDSTONE RIVER AT MOUTH,  
NORTHWEST TERRITORIES

SUBM ID	SAMPLES(FLAGS)	15103L	15255L	15313F	15356L	15403L	06001L	06051L	08101F	ECHANTILLONS(IND.)
		PHOSPHORUS TOTAL DISSOLVED	PHOSPHORUS DISSOLVED ORTHO PO4	PHOSPHORUS TOTAL INORG. PO4	PHOSPHORUS DISSOLVED INORG. PO4	PHOSPHATE TOTAL	CARBON TOTAL ORGANIC	CARBON TOTAL INORGANIC	OXYGEN DISSOLVED DO	
		P	P	P	P	PO4	C	C	O2	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
0124		3(2)	32(29)	18(8)	3(2)		31(2)	31(0)	2(0)	
0001	LOW	L.003	L.002	L.002	L.003		L.5	14.0	11.9	MINIMUM
	HIGH	.005	.009	.63	.006		83.0	81.0	12.2	MAXIMUM
	AVERAGE	.004*	.002*	.121*	.004*		10.7*	24.3	12.0	MOYENNE
	STD.DEV.	.001*	.001*	.192*	.002*		15.3*	12.0	.2	ECART-TYPE
	PERCNT:10TH		L.002	L.002			1.	16.0		10 <sup>e</sup> PERCNT
	25TH		L.002	L.002			2.	18.0		25 <sup>e</sup>
	MEDIAN 50TH	L.003	L.002	.010	L.003		9.0	22.0	12.0	50 <sup>e</sup> MEDIANE
	75TH		L.002	.16			11.0	28.0		75 <sup>e</sup>
	90TH		L.003	.45			23.0	31.0		90 <sup>e</sup>
SECONDARY CODE			55F 57L 56L	14L 13L					02S	CODE DE SECOURS

SUBM ID	SAMPLES(FLAGS)	05105L	03301P	23301P	24302P	25101L	25304P	26102L	26304P	ECHANTILLONS(IND.)
		BORON DISSOLVED	LITHIUM EXTRBLE.	VANADIUM EXTRBLE.	CHROMIUM EXTRBLE.	MANGANESE DISSOLVED	MANGANESE EXTRBLE.	IRON DISSOLVED	IRON EXTRBLE.	
		B	LI	V	CR	MN	MN	FE	FE	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
0124		23(5)	26(6)	26(24)	26(20)	6(6)	30(10)	11(4)	26(1)	
0001	LOW	.01	L.005	L.05	L.010	L.010	.008	L.001	L.05	MINIMUM
	HIGH	.37	.126	.34	.043	L.01	2.65	.060	64.0	MAXIMUM
	AVERAGE	.06*	.013*	.0623*	.013*		.198*	.017*	7.603*	MOYENNE
	STD.DEV.	.09*	.024*	.0569*	.007*		.485*	.022*	13.664*	ECART-TYPE
	PERCNT:10TH	L.02	L.005	L.05	L.010		L.010	L.001	.05	10 <sup>e</sup> PERCNT
	25TH	L.02	.005	L.05	L.010	L.010	L.01	L.001	.09	25 <sup>e</sup>
	MEDIAN 50TH	.03	.008	L.0500	L.010	L.010	.035	.010	1.550	50 <sup>e</sup> MEDIANE
	75TH	.05	.009	L.05	L.015	L.01	.19	.020	8.40	75 <sup>e</sup>
	90TH	.07	.022	L.05	.020		.440	.060	24.0	90 <sup>e</sup>
SECONDARY CODE		02L				04L	04L 05P			CODE DE SECOURS

SUBM ID	SAMPLES(FLAGS)	28101L	28302P	29105L	29305P	30105L	30304P	33103L	33303L	ECHANTILLONS(IND.)
		NICKEL DISSOLVED	NICKEL EXTRBLE.	COPPER DISSOLVED	COPPER EXTRBLE.	ZINC DISSOLVED	ZINC EXTRBL.	ARSENIC DISSOLVED	ARSENIC EXTRBLE.	
		NI	NI	CU	CU	ZN	ZN	AS	AS	
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
0124		1(0)	25(7)	4(3)	32(12)	4(2)	32(6)	21(15)		
0001	LOW	.002	L.001	L.001	L.001	L.001	L.001	L.0005		MINIMUM
	HIGH	.002	.074	.002	.061	L.01	.09	.010		MAXIMUM
	AVERAGE		.013*	.001*	.009*	.004*	.019*	.0045*		MOYENNE
	STD.DEV.		.016*	.001*	.012*	.004*	.023*	.0028*		ECART-TYPE
	PERCNT:10TH		L.001		L.001		.002	L.0005		10 <sup>e</sup> PERCNT
	25TH		L.001	L.001	.001	.001*	.003	L.004		25 <sup>e</sup>
	MEDIAN 50TH		.008	L.001	.007	.002	L.010	L.005		50 <sup>e</sup> MEDIANE
	75TH		.015	.001*	L.010	.006*	.021	.005		75 <sup>e</sup>
	90TH		.032		.022		.049	.008		90 <sup>e</sup>
SECONDARY CODE					06L	04L	05P 04L	04L 01L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10HB0004 LAT 64 D 16M 0 S LONG. 124 D 34M 30 S

UTM 10 423700E 7127500 N  
AUG 08 1969 TO: A OCT 30 1974REDSTONE RIVER AT MOUTH  
NORTHWEST TERRITORIES

	27302P COBALT EXTRBL.	34301P SELENIUM EXTRBL.	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48103L CADMIUM DISSOLVED	48402P CADMIUM EXTRBL.	56401P BARIUM EXTRBL.	
CRBM ID	CO MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	BA MG/L	
SAMPLES(FLAGS) 0124	25(5)		26(0)	26(26)		1(1)	24(15)		ECHANTILLONS(IND.)
LOW	L.001		.43	L.05		L.001	L.001		MINIMUM
HIGH	.042		4.70	L.10		L.001	.003		MAXIMUM
AVERAGE	.006*		1.47				.001*		MOYENNE
STD.DEV.	.008*		1.27				.001*		ECART-TYPE
PERCNT:10TH	L.001		.52	L.05			L.001		10 <sup>e</sup> PERCNT
25TH	.001		.55	L.05			L.001		25 <sup>e</sup>
MEDIAN 50TH	.004		.78	L.05			L.001		50 <sup>e</sup> MEDIANE
75TH	.006		1.90	L.05			.002		75 <sup>e</sup>
90TH	.011		3.70	L.10			.002		90 <sup>e</sup>
SECONDARY CODE						01L			CODE DE SECOURS

	74301P TUNGSTEN EXTRBL.	80311P MERCURY EXTRBL.	81302P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
CRBM ID	W MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0124		7(5)		4(3)	32(13)	35(1)	22(0)	22(0)	ECHANTILLONS(IND.)
LOW 0001		L.05		L.001	L.001	L.05	6.	3.	MINIMUM
HIGH		.08		.010	.047	.34	1480.	1400.	MAXIMUM
AVERAGE		.06*		.003*	.007*	.13*	376.	345.	MOYENNE
STD.DEV.		.01*		.005*	.008*	.08*	358.	336.	ECART-TYPE
PERCNT:10TH					L.001	.06	21.	17.	10 <sup>e</sup> PERCNT
25TH		L.05		L.001	L.004	.07	150.	126.	25 <sup>e</sup>
MEDIAN 50TH		L.05		L.001	.006	.09	253.	228.	50 <sup>e</sup> MEDIANE
75TH		.08		.005*	L.010	.16	597.	535.	75 <sup>e</sup>
90TH					.010	.27	710.	645.	90 <sup>e</sup>
SECONDARY CODE					01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10HC0001** LAT. **63 D 16 M 0 S** LONG. **123 D 36 M 0 S**UTM **10 470000E 7015000 N**  
AUG 06, 1969 TO/À OCT 30, 1974MACKENZIE RIVER NEAR WRIGLEY,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b>	<b>0124</b>	<b>18(0)</b>	<b>22(0)</b>	<b>28(0)</b>	<b>27(0)</b>	<b>28(0)</b>	<b>22(0)</b>	<b>28(0)</b>	<b>22(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>200.</b>	<b>105.</b>	<b>89.0</b>	<b>5.</b>	<b>2.6</b>	<b>7.6</b>	<b>67.7</b>	<b>-.4</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>342.</b>	<b>182.</b>	<b>157.</b>	<b>500.</b>	<b>300.</b>	<b>8.3</b>	<b>120.</b>	<b>.6</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>261.</b>	<b>134.</b>	<b>110.5</b>	<b>51.</b>	<b>50.3</b>		<b>85.8</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>50.</b>	<b>24.</b>	<b>18.1</b>	<b>97.</b>	<b>68.8</b>		<b>13.7</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>201.</b>	<b>109.</b>	<b>90.2</b>	<b>10.</b>	<b>3.5</b>	<b>7.7</b>	<b>71.5</b>	<b>-.3</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>212.</b>	<b>113.</b>	<b>97.7</b>	<b>10.</b>	<b>7.7</b>	<b>7.9</b>	<b>77.3</b>	<b>-.1</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>250.</b>	<b>129.</b>	<b>106.0</b>	<b>20.</b>	<b>30.0</b>	<b>8.0</b>	<b>81.7</b>	<b>.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>298.</b>	<b>152.</b>	<b>116.0</b>	<b>50.</b>	<b>59.5</b>	<b>8.1</b>	<b>89.3</b>	<b>.2</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>341.</b>	<b>170.</b>	<b>144.</b>	<b>150.</b>	<b>150.</b>	<b>8.3</b>	<b>113.</b>	<b>.4</b>	<b>90<sup>e</sup></b>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0124</b>	<b>27(0)</b>	<b>27(0)</b>	<b>28(0)</b>		<b>22(0)</b>	<b>22(0)</b>	<b>27(0)</b>	<b>27(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.7</b>	<b>3.1</b>	<b>27.0</b>		<b>0.</b>	<b>83.</b>	<b>2.2</b>	<b>18.0</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>1.5</b>	<b>17.5</b>	<b>48.2</b>		<b>0.</b>	<b>146.</b>	<b>23.8</b>	<b>34.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>1.0</b>	<b>7.7</b>	<b>33.37</b>		<b>0.</b>	<b>106.</b>	<b>8.9</b>	<b>25.8</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.2</b>	<b>3.4</b>	<b>5.16</b>		<b>0.</b>	<b>19.</b>	<b>5.1</b>	<b>4.7</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.8</b>	<b>4.9</b>	<b>27.6</b>		<b>0.</b>	<b>87.</b>	<b>4.5</b>	<b>20.0</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.9</b>	<b>5.5</b>	<b>28.85</b>		<b>0.</b>	<b>93.</b>	<b>5.2</b>	<b>22.2</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>1.0</b>	<b>6.1</b>	<b>33.20</b>		<b>0.</b>	<b>98.</b>	<b>8.0</b>	<b>26.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>1.1</b>	<b>9.7</b>	<b>36.10</b>		<b>0.</b>	<b>111.</b>	<b>10.8</b>	<b>28.7</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>1.2</b>	<b>13.2</b>	<b>42.0</b>		<b>0.</b>	<b>138.</b>	<b>16.2</b>	<b>33.7</b>	<b>90<sup>e</sup></b>
SECONDARY CODE				01F				06L	06L 04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN NO3 & NO2	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS ORTHOPHOSPHATE	15313F PHOSPHORUS INORG. PO4	15363L PHOSPHORUS INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0124</b>	<b>23(10)</b>	<b>26(2)</b>	<b>3(2)</b>	<b>24(17)</b>	<b>14(1)</b>	<b>22(13)</b>	<b>22(0)</b>	<b>28(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.3</b>	<b>L.001</b>	<b>L.003</b>	<b>L.002</b>	<b>L.002</b>	<b>L.001</b>	<b>.003</b>	<b>2.2</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>2.2</b>	<b>.210</b>	<b>.004</b>	<b>.210</b>	<b>.74</b>	<b>.220</b>	<b>.360</b>	<b>4.8</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.7*</b>	<b>.088*</b>	<b>.003*</b>	<b>.011*</b>	<b>.132*</b>	<b>.012*</b>	<b>.062</b>	<b>3.45</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.5*</b>	<b>.057*</b>	<b>.001*</b>	<b>.042*</b>	<b>.246*</b>	<b>.046*</b>	<b>.084</b>	<b>.62</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>L.5</b>	<b>.01</b>		<b>L.002</b>	<b>.003</b>	<b>L.001</b>	<b>.009</b>	<b>2.8</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.5</b>	<b>.040</b>		<b>L.002</b>	<b>.005</b>	<b>L.001</b>	<b>.012</b>	<b>3.05</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.5</b>	<b>.090</b>	<b>L.003</b>	<b>L.002</b>	<b>.024</b>	<b>L.003</b>	<b>.041</b>	<b>3.30</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.7</b>	<b>.120</b>		<b>.003</b>	<b>.046</b>	<b>.004</b>	<b>.057</b>	<b>3.70</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>1.2</b>	<b>.180</b>		<b>.004</b>	<b>.63</b>	<b>.005</b>	<b>.089</b>	<b>4.6</b>	<b>90<sup>e</sup></b>
SECONDARY CODE		02L	06F 06L		55F 57L 56L	14L 13L	63F 56L	13F 06L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB-BASIN

14 00NW10HC0001 63 16 0 123 36 0

10 470000 7015000

AUG 06 1969 TO/A OCT 30 1974

MACKENZIE RIVER NEAR WRIGLEY  
NORTHWEST TERRITORIES

		06001L CARBON TOTAL ORGANIC DO C	08102S OXYGEN DISSOLVED DO O2	09105L FLUORIDE DISSOLVED F	03001P LITHIUM EXTRBL. LI	05105L BORON DISSOLVED B	23001P VANADIUM EXTRBL. V	24302P CHROMIUM EXTRBL. CR	27302P COBALT EXTRBL. CO	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	24(0)	2(0)	28(2)	26(8)	23(1)	26(25)	26(23)	26(10)	ECHANTILLONS(IND.)
LOW		5.	12.4	L.05	L.005	L.02	L.05	L.010	L.001	MINIMUM
HIGH		27.0	15.6	.35	.020	.20	.06	.020	.021	MAXIMUM
AVERAGE		10.8	14.0	.09*	.007*	.05*	.05*	.011*	.004*	MOYENNE
STD.DEV.		6.6	2.3	.05*	.003*	.04*	.00*	.003*	.005*	ECART-TYPE
PERCNT:10TH		6.0		.05	L.005	.03	L.05	L.010	L.001	10 <sup>e</sup> PERCNT
25TH		6.0		.06	L.005	.03	L.05	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH		8.0	14.0	.08	.006	.04	L.05	L.010	.002	50 <sup>e</sup> MEDIANE
75TH		12.5		.09	.007	.05	L.05	L.010	.003	75 <sup>e</sup>
90TH		23.0		.10	.008	.08	L.05	L.015	.011	90 <sup>e</sup>
SECONDARY CODE						02L				CODE DE SECOURS

		25101L MANGANESE DISSOLVED MN	25304P MANGANESE EXTRBL. MN	26102L IRON DISSOLVED FE	26304P IRON EXTRBL. FE	28302P NICKEL EXTRBL. NI	29305P COPPER EXTRBL. CU	30305P ZINC EXTRBL. ZN	33103L ARSENIC DISSOLVED AS	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	1(1)	26(11)	2(0)	27(0)	26(3)	28(6)	28(6)	21(10)	ECHANTILLONS(IND.)
LOW		L.010	L.01	.020	.08	L.001	L.001	L.001	L.0005	MINIMUM
HIGH		L.010	.60	.020	20.0	.036	.031	.11	.015	MAXIMUM
AVERAGE		.07*	.02*	.020	2.120	.009*	.005*	.012*	.0057*	MOYENNE
STD.DEV.		.13*	.000	.000	4.486	.009*	.007*	.022*	.0042*	ECART-TYPE
PERCNT:10TH			L.01		.10	L.001	L.001	L.001	L.0005	10 <sup>e</sup> PERCNT
25TH			L.01		.20	.004	.001	.003	L.005	25 <sup>e</sup>
MEDIAN 50TH			.03*	.020	.65	.006	.003	.006	L.005	50 <sup>e</sup> MEDIANE
75TH			.06		1.40	.010	.005	L.010	.007	75 <sup>e</sup>
90TH			.17		4.05	.024	L.01	.016	.013	90 <sup>e</sup>
SECONDARY CODE							06L	04P 04L	04L	CODE DE SECOURS

		38301P STRONTIUM EXTRBL. SR	42301P MOLYBDENUM EXTRBL. MO	48302P CADMIUM EXTRBL. CD	56301P BARIUM EXTRBL. BA	80311P MERCURY EXTRBL. HG	82302P LEAD EXTRBL. PB	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	26(0)	25(25)	26(13)	1(1)	7(6)	28(17)	17(0)	17(1)	ECHANTILLONS(IND.)
LOW		.10	L.05	L.001	L.1	L.05	L.001	3.	L.1.	MINIMUM
HIGH		.27	L.10	.010	L.1	.07	.013	1338.	1218.	MAXIMUM
AVERAGE		.16		.002*		.05*	.004*	216.	193.*	MOYENNE
STD.DEV.		.04		.002*		.01*	.004*	409.	375.*	ECART-TYPE
PERCNT:10TH		.11	L.05	L.001			L.001	5.	1.	10 <sup>e</sup> PERCNT
25TH		.13	L.05	L.001		L.05	L.001	28.	20.	25 <sup>e</sup>
MEDIAN 50TH		.15	L.05	.001*		L.05	.002*	46.	42.	50 <sup>e</sup> MEDIANE
75TH		.20	L.05	.002		L.05	.006	145.	118.	75 <sup>e</sup>
90TH		.23	L.10	.002			L.01	1210.	1110.	90 <sup>e</sup>
SECONDARY CODE							01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10HC0005** LAT. **63 D 57 M 0 S** LONG. **124 D 9 M 0 S**UTM **10 444000E 7092000 N**  
JAN 08, 1972 TO/À OCT 30, 1974BLACKWATER RIVER AT MOUTH,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID		USIE/CM								
<b>SAMPLES(FLAGS)</b>	0124	18(0)	23(0)	27(0)	27(0)	28(0)	22(0)	28(0)	22(0)	ECHANTILLONS(IND.)
<b>LOW</b>		150.	107.	81.5	20.	.4	7.8	65.4	-.4	MINIMUM
<b>HIGH</b>		1942.	1245.	635.	100.	260.	8.4	169.	1.3	MAXIMUM
<b>AVERAGE</b>		588.	336.	220.3	50.	16.2		100.9		MOYENNE
<b>STD.DEV.</b>		568.	359.	181.6	19.	49.9		33.5		ECART-TYPE
<b>PERCNT:10TH</b>		213.	115.	85.5	25.	.5	7.8	69.0	-.3	10 <sup>e</sup> PERCNT
<b>25TH</b>		244.	128.	95.0	30.	.9	8.0	75.5	-.1	25 <sup>e</sup>
<b>MEDIAN 50TH</b>		311.	151.	119.	50.	2.0	8.0	85.9	.0	50 <sup>e</sup> MEDIANE
<b>75TH</b>		568.	315.	415.	60.	4.5	8.1	123.0	.4	75 <sup>e</sup>
<b>90TH</b>		1630.	968.	512.	70.	52.0	8.2	162.	.9	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	0124	28(0)	28(0)	28(0)	2(0)	23(0)	23(0)	28(0)	28(0)	ECHANTILLONS(IND.)
<b>LOW</b>		.6	8.5	25.9	7.5	0.	80.	11.9	13.6	MINIMUM
<b>HIGH</b>		3.4	178.	211.	11.7	1.	206.	275.	451.	MAXIMUM
<b>AVERAGE</b>		1.0	49.1	65.13	9.6	0.	119.	72.7	112.5	MOYENNE
<b>STD.DEV.</b>		.6	54.1	56.08	3.0	0.	42.	82.8	142.6	ECART-TYPE
<b>PERCNT:10TH</b>		.6	10.6	26.3		0.	84.	14.3	13.9	10 <sup>e</sup> PERCNT
<b>25TH</b>		.7	13.2	28.15		0.	90.	18.0	17.9	25 <sup>e</sup>
<b>MEDIAN 50TH</b>		.7	17.3	32.85	9.6	0.	100.	24.4	30.5	50 <sup>e</sup> MEDIANE
<b>75TH</b>		1.2	90.0	110.50		0.	126.	133.0	204.0	75 <sup>e</sup>
<b>90TH</b>		1.7	136.	155.		0.	196.	200.	360.	90 <sup>e</sup>
SECONDARY CODE				03L 01F				06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15313F PHOSPHORUS TOTAL INORG. PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	
SUBM ID										
<b>SAMPLES(FLAGS)</b>	0124	24(10)	26(0)	3(3)	24(22)	12(5)	22(15)	21(7)	28(0)	ECHANTILLONS(IND.)
<b>LOW</b>		.4	.040	L.003	L.002	L.003	L.001	L.003	1.5	MINIMUM
<b>HIGH</b>		1.3	.280	L.003	.003	.081	.006	.086	5.8	MAXIMUM
<b>AVERAGE</b>		.6*	.135		.002*	.018*	.002*	.018*	3.27	MOYENNE
<b>STD.DEV.</b>		.2*	.060		.000*	.029*	.001*	.021*	1.22	ECART-TYPE
<b>PERCNT:10TH</b>		L.5	.060		L.002	L.003	L.001	L.005	1.8	10 <sup>e</sup> PERCNT
<b>25TH</b>		L.5	.090		L.002	L.003	L.001	L.005	2.60	25 <sup>e</sup>
<b>MEDIAN 50TH</b>		.5	.125	L.003	L.002	.004	L.001	.009	2.70	50 <sup>e</sup> MEDIANE
<b>75TH</b>		.6	.170		L.002	.016	.003	.020	4.35	75 <sup>e</sup>
<b>90TH</b>		.6	.220		L.003	.080	.004	.031	5.2	90 <sup>e</sup>
SECONDARY CODE		02L	06F 06L		55F 56L	13L	63F 56L	13F 06L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



MACKENZIE RIVER BASIN 1960 1979

MACKENZIE RIVER SUB BASIN

STATION 00NW10HC0005 LAT. 63 D 57 M 0 S LONG. 124 D 9 M 0 S

UTM 10 444000 7092000  
JAN 08 1972 TO: A OCT 30 1974

BLACKWATER RIVER AT MOUTH  
NORTHWEST TERRITORIES

		06001L CARBON TOTAL ORGANIC C MG/L	08102S OXYGEN DISSOLVED DO MG/L	09105L FLUORIDE DISSOLVED F MG/L	03301P LITHIUM EXTRBLE. LI MG/L	05105L BORON DISSOLVED B MG/L	23301P VANADIUM EXTRBLE. V MG/L	24102P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	
SAMPLES(FLAGS)	0124	28(0)	2(0)	28(5)	27(14)	24(1)	27(27)	26(24)	27(13)	ECHANTILLONS(IND.)
LOW		4.0	13.0	L.05	L.005	L.02	L.05	L.010	L.001	MINIMUM
HIGH		35.0	18.0	.37	.57	.16	L.05	L.015	.015	MAXIMUM
AVERAGE		12.2	15.5	.12*	.028*	.08*		.010*	.002*	MOYENNE
STD.DEV.		5.4	3.5	.10*	.108*	.03*		.001*	.003*	ECART-TYPE
PERCNT:10TH		7.0		L.05	L.005	.04	L.05	L.010	L.001	10 <sup>e</sup> PERCNT
25TH		9.5		.06	L.005	.05	L.05	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH		11.5	15.5	.07	L.005	.08	L.05	L.010	L.002	50 <sup>e</sup> MEDIANE
75TH		13.5		.15	.013	.10	L.05	L.010	.002	75 <sup>e</sup>
90TH		17.0		.33	.015	.10	L.05	.012	.004	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		25101L MANGANESE DISSOLVED MN MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26102L IRON DISSOLVED FE MG/L	26304P IRON EXTRBLE. FE MG/L	26505P NICKEL EXTRBLE. N MG/L	29305P COPPER EXTRBLE. CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	33103L ARSENIC DISSOLVED AS MG/L	
SAMPLES(FLAGS)	0124		27(15)	2(0)	28(2)	27(9)	28(19)	28(6)	22(11)	ECHANTILLONS(IND.)
LOW			L.01	.060	L.05	L.001	L.001	L.001	L.0005	MINIMUM
HIGH			.09	.070	2.80	.016	.006	.12	.022	MAXIMUM
AVERAGE			.02*	.065	.364*	.005*	.002*	.014*	.0061*	MOYENNE
STD.DEV.			.02*	.007	.612*	.005*	.001*	.029*	.0048*	ECART-TYPE
PERCNT:10TH			L.01		.05	L.001	L.001	.001	L.0005	10 <sup>e</sup> PERCNT
25TH			L.01		.080	L.001	L.001	.003	L.005	25 <sup>e</sup>
MEDIAN 50TH			L.01	.065	.095	.004	L.001	.005	.0055*	50 <sup>e</sup> MEDIANE
75TH			.02		.395	.007	.002	L.010	.008	75 <sup>e</sup>
90TH			.06		1.40	.014	.004	.026	.010	90 <sup>e</sup>
SECONDARY CODE								.04P	.04L	CODE DE SECOURS

		38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	80311P MERCURY EXTRBLE. HG UG/L	82302P LEAD EXTRBLE. PB MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR MG/L	
SAMPLES(FLAGS)	0124	27(1)	26(26)	27(18)	1(1)	7(6)	27(18)	8(2)	8(2)	ECHANTILLONS(IND.)
LOW		L.00	L.05	L.001	L.1	L.05	L.001	L.1	L.1	MINIMUM
HIGH		5.10	L.10	.004	L.1	.13	.016	92.	72.	MAXIMUM
AVERAGE		1.16*		.001*		.06*	.003*	29.*	21.*	MOYENNE
STD.DEV.		1.55*		.001*		.03*	.004*	31.*	25.*	ECART-TYPE
PERCNT:10TH		.12	L.05	L.001			L.001			10 <sup>e</sup> PERCNT
25TH		.15	L.05	L.001		L.05	L.001	4.*	1.*	25 <sup>e</sup>
MEDIAN 50TH		.34	L.05	L.001		L.05	L.001	18.	12.	50 <sup>e</sup> MEDIANE
75TH		1.70	L.05	.001		L.05	L.004	47.	34	75 <sup>e</sup>
90TH		4.23	L.05	.003			.009			90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

MACKENZIE RIVER SUB-BASIN

STATION **00NW10KA0001** LAT. **65 D 16 M 54 S** LONG. **126 D 50 M 57 S**

UTM **09 600300 E 7241400 N**  
MAY 25, 1960 TO/A OCT 25, 1979

MACKENZIE RIVER AT NORMAN WELLS,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0001 0056	131(0) 120.	128(1) 92.	98(0) 1.0	124(6) L5.	129(3) L.1	130(0) 7.3	129(0) 61.3	125(1) Q -2.1	MINIMUM
HIGH		656.	320.	219.	7100.	975.	8.6	122.	.8	MAXIMUM
AVERAGE		235.	124.*	98.9	82.*	46.2'		77.2		MOYENNE
STD.DEV.		55.	21.*	18.0	636.*	99.5*		8.1		ECART-TYPE
PERCNT:10TH		199.	109.	87.7	5.	.6	7.7	67.2	-.5	10 <sup>e</sup> PERCNT
25TH		215.	116.	91.9	5.	2.9	7.8	72.2	-.4	25 <sup>e</sup>
MEDIAN 50TH		230.	124.	98.9	15.	20.	8.0	76.7	-.1	50 <sup>e</sup> MEDIANE
75TH		246.	130.	104.	30.	55.0	8.1	82.2	.0	75 <sup>e</sup>
90TH		263.	139.	110.	60.	106.	8.2	86.0	.2	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001 0056	131(0) .6	131(0) 1.7	132(1) L.5	34(0) 5.9	123(0) 0.	123(0) 75.	130(0) 1.0	130(0) 16.	MINIMUM
HIGH		4.5	49.0	69.1	10.8	4.	149.	55.0	73.5	MAXIMUM
AVERAGE		.9	8.3	27.98*	7.6	0.	94.	9.3	24.4	MOYENNE
STD.DEV.		.4	5.0	5.25*	1.1	0.	10.	5.1	5.5	ECART-TYPE
PERCNT:10TH		.7	5.0	23.7	6.3	0.	83.	5.7	20.2	10 <sup>e</sup> PERCNT
25TH		.8	5.9	25.75	6.8	0.	88.	6.8	21.6	25 <sup>e</sup>
MEDIAN 50TH		.9	7.3	28.40	7.8	0.	93.	8.7	23.9	50 <sup>e</sup> MEDIANE
75TH		1.0	9.5	30.00	8.3	0.	100.	10.8	26.0	75 <sup>e</sup>
90TH		1.0	12.	31.6	8.9	0.	103.	12.5	28.0	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15313F PHOSPHORUS TOTAL INORG. PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001 0056	7(4) L.1	82(8) L.005	3(1) L.003	20(6) L.002	7(5) L.002	23(4) L.001	34(11) L.005	120(0) 1.6	MINIMUM
HIGH		.6	5.00	.010	.121	.010	.186	.359	60.0	MAXIMUM
AVERAGE		.4*	.181*	.007*	.017*	.004*	.035*	.039*	3.55	MOYENNE
STD.DEV.		.2*	.552*	.004*	.028*	.003*	.046*	.067*	5.22	ECART-TYPE
PERCNT:10TH			.011		L.002		L.002	L.005	2.60	10 <sup>e</sup> PERCNT
25TH		.3	.050		L.002	L.002	.003	L.005	2.80	25 <sup>e</sup>
MEDIAN 50TH		L.5	.119	.007	.006	L.002	.016	.013	3.00	50 <sup>e</sup> MEDIANE
75TH		.5	.160		.015	.007	.042	.045	3.30	75 <sup>e</sup>
90TH			.203		.044		.108	.098	3.55	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10KA0001 LAT 65° 16' 54" N LONG 126° 50' 57" W

ITEM 09 600300: 7241400 N

JUL 13, 1960 TO/A OCT 25, 1979

MACKENZIE RIVER AT NORMAN WELLS,  
NORTHWEST TERRITORIES

	06001L CARBON TOTAL ORGANIC C	08102S OXYGEN DISSOLVED DO O2	09105L FLUORIDE DISSOLVED F	03301P LITHIUM EXTRBLE. LI	05105L BORON DISSOLVED B	23301P VANADIUM EXTRBLE. V	24302P CHROMIUM EXTRBLE. CR	27302P COBALT EXTRBLE. CO	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0001	13(0)		70(5)		6(2)		4(4)	6(4)	ECHANTILLONS(IND.)
LOW 0056	4.0		.06		L.01		L.01	L.001	MINIMUM
HIGH	17.0		.57		.09		L.015	.002	MAXIMUM
AVERAGE	7.8		.13*		.04*			.002*	MOYENNE
STD.DEV.	3.9		.06*		.03*			.001*	ECART-TYPE
PERCNT:10TH	4.0		.08						10 <sup>e</sup> PERCNT
25TH	5.		L.10		L.01		L.010	.001	25 <sup>e</sup>
MEDIAN 50TH	6.0		.11		.04		L.010	L.002	50 <sup>e</sup> MEDIANE
75TH	10.0		.15		.04		L.012	L.002	75 <sup>e</sup>
90TH	12.0		.17						90 <sup>e</sup>
SECONDARY CODE			02L 04L 06L		01L		02L		CODE DE SECOURS

	25101L MANGANESE DISSOLVED MN	25304P MANGANESE EXTRBLE. MN	26102L IRON DISSOLVED FE	26304P IRON EXTRBLE. FE	28302P NICKEL EXTRBLE. NI	29305P COPPER EXTRBLE. CU	30305P ZINC EXTRBLE. ZN	33103L ARSENIC DISSOLVED AS	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0001	59(58)	20(9)	56(21)	6(0)	3(3)	23(15)	24(16)	3(3)	ECHANTILLONS(IND.)
LOW 0056	L.010	L.01	L.001	.30	L.005	.002	.001	L.0005	MINIMUM
HIGH	.06	.34	.340	2.8	L.005	.02	.06	L.0005	MAXIMUM
AVERAGE	.011*	.05*	.034*	1.160		.009*	.013*		MOYENNE
STD.DEV.	.007*	.09*	.059*	.876		.004*	.011*		ECART-TYPE
PERCNT:10TH	L.01	L.01	L.001			.004	L.01		10 <sup>e</sup> PERCNT
25TH	L.01	L.01	L.001	.75		L.01	L.010		25 <sup>e</sup>
MEDIAN 50TH	L.010	.01	.010	.865	L.005	L.01	L.010	L.0005	50 <sup>e</sup> MEDIANE
75TH	L.01	.04	.040	1.38		L.01	.010*		75 <sup>e</sup>
90TH	L.010	.17	.090			.01	.019		90 <sup>e</sup>
SECONDARY CODE	04L	03L 04L	01L 04L			01L 06L	01L 04L	04L	CODE DE SECOURS

	38301P STRONTIUM EXTRBLE. SR	42301P MOLYBDENUM EXTRBLE. MO	48302P CADMIUM EXTRBLE. CD	56301P BARIUM EXTRBLE. BA	80311P MERCURY EXTRBLE. HG	82302P LEAD EXTRBLE. PB	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS) 0001	1(0)	3(3)	6(6)	6(3)		13(13)	54(0)	51(10)	ECHANTILLONS(IND.)
LOW 0056	.16	L.05	L.001	.1		L.004	2.	L.1	MINIMUM
HIGH	.16	L.05	L.001	L.1		L.01	2276.	2136.	MAXIMUM
AVERAGE				.1*			139.	130.*	MOYENNE
STD.DEV.				.0*			335.	321.*	ECART-TYPE
PERCNT:10TH						L.004	2.	L.1	10 <sup>e</sup> PERCNT
25TH			L.001	.1		L.005	4.	2.	25 <sup>e</sup>
MEDIAN 50TH		L.05	L.001	.1*		L.01	43.	39.	50 <sup>e</sup> MEDIANE
75TH			L.001	L.1		L.01	131.	114.	75 <sup>e</sup>
90TH						L.01	330.	300.	90 <sup>e</sup>
SECONDARY CODE						01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10KA0002** LAT. **65 D 10 M 0 S** LONG. **126 D 25 M 0 S**UTM **09 621000E 7229000 N**  
MAR 02, 1972 TO/À OCT 30, 1974MACKENZIE RIVER, 14.5 MILES ABOVE  
NORMAN WELLS, NORTHWEST TERRITORIES

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b> 0124	16(0)	20(0)	26(0)	25(3)	24(0)	20(0)	26(0)	20(0)	ECHANTILLONS(IND.)
<b>LOW</b>	185.	98.	84.0	L5.	2.2	7.6	64.9	-.5	MINIMUM
<b>HIGH</b>	324.	166.	133.	200.	300.	8.3	98.9	.4	MAXIMUM
<b>AVERAGE</b>	239.	124.	106.5	59.*	83.4		81.0		MOYENNE
<b>STD.DEV.</b>	36.	17.	13.7	60.*	81.2		8.7		ECART-TYPE
<b>PERCNT:10TH</b>	194.	104.	89.2	L5.	2.5	7.7	70.0	-.4	10 <sup>e</sup> PERCNT
<b>25TH</b>	206.	111.	95.6	5.	10.8	7.9	72.6	-.2	25 <sup>e</sup>
<b>MEDIAN 50TH</b>	242.	122.	107.0	40.	66.0	8.1	82.8	.0	50 <sup>e</sup> MEDIANE
<b>75TH</b>	261.	135.	116.	100.	142.5	8.2	86.6	.1	75 <sup>e</sup>
<b>90TH</b>	270.	147.	127.	150.	200.	8.2	91.7	.3	90 <sup>e</sup>
SECONDARY CODE			03F	11F	73F		01F		CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0124	26(0)	26(0)	26(0)		20(0)	20(0)	26(0)	26(0)	ECHANTILLONS(IND.)
<b>LOW</b>	.8	3.8	24.9		0.	79.	3.3	18.0	MINIMUM
<b>HIGH</b>	4.2	10.9	43.4		0.	121.	13.0	39.0	MAXIMUM
<b>AVERAGE</b>	1.1	6.8	31.85		0.	96.	7.4	25.8	MOYENNE
<b>STD.DEV.</b>	.7	2.0	4.14		0.	11.	2.9	5.2	ECART-TYPE
<b>PERCNT:10TH</b>	.8	4.4	26.5		0.	85.	3.8	19.1	10 <sup>e</sup> PERCNT
<b>25TH</b>	.8	4.8	28.5		0.	88.	5.0	22.2	25 <sup>e</sup>
<b>MEDIAN 50TH</b>	1.0	6.6	31.40		0.	93.	6.8	25.5	50 <sup>e</sup> MEDIANE
<b>75TH</b>	1.0	8.4	34.9		0.	105.	9.5	28.0	75 <sup>e</sup>
<b>90TH</b>	1.2	9.4	36.		0.	110.	12.0	32.3	90 <sup>e</sup>
SECONDARY CODE			01F				06L	06L 04L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15313F PHOSPHORUS TOTAL INORG. PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0124	22(10)	24(0)	3(3)	23(17)	11(0)	22(13)	24(1)	26(0)	ECHANTILLONS(IND.)
<b>LOW</b>	.4	.020	L.003	L.002	.003	L.001	L.005	2.2	MINIMUM
<b>HIGH</b>	2.5	.280	L.003	.012	.33	.025	.660	4.4	MAXIMUM
<b>AVERAGE</b>	.7*	.116		.003*	.098	.004*	.116*	3.28	MOYENNE
<b>STD.DEV.</b>	.5*	.071		.002*	.110	.006*	.182*	.48	ECART-TYPE
<b>PERCNT:10TH</b>	L.5	.030		L.002	.003	L.001	.008	2.8	10 <sup>e</sup> PERCNT
<b>25TH</b>	L.5	.055		L.002	.008	L.001	.013	3.0	25 <sup>e</sup>
<b>MEDIAN 50TH</b>	.5*	.100	L.003	L.002	.051	L.002	.035	3.25	50 <sup>e</sup> MEDIANE
<b>75TH</b>	.7	.165		.003	.19	.004	.125	3.6	75 <sup>e</sup>
<b>90TH</b>	1.1	.200		.003	.23	.006	.370	4.0	90 <sup>e</sup>
SECONDARY CODE	02L	06F 06L		55F 56L	13L	63F 56L	13F 06L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10KA0002 LAT 65 D 10 M 0 S LONG. 126 D 25 M 0 S

UTM 09 621000 7229000

MAR 02 1972 TO/A OCT 30 1974

MACKENZIE RIVER 14.5 MILES ABOVE  
NORMAN WELLS NORTHWEST TERRITORIES

		16001L CARBON TOTAL ORGANIC	08102S OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED	53301P LITHIUM EXTRBLE	05105L BORON DISSOLVED	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	27302P COBALT EXTRBLE	
	SUBM ID	C MG/L	O2 MG/L	F MG/L	Li MG/L	B MG/L	V MG/L	CR MG/L	CO MG/L	
SAMPLES(FLAGS)	0124	26(0)	2(0)	26(2)	25(8)	22(1)	25(22)	25(23)	24(8)	ECHANTILLONS(IND.)
LOW		3.0	9.6	L.05	L.005	L.02	L.05	L.010	L.001	MINIMUM
HIGH		39.0	14.8	.10	.033	.14	.10	.020	.015	MAXIMUM
AVERAGE		11.0	12.2	.08*	.008*	.05*	.05*	.011*	.004*	MOYENNE
STD.DEV.		8.4	3.7	.01*	.006*	.03*	.01*	.002*	.004*	ECART-TYPE
PERCNT:10TH		4.0		06	L.005	03	L.05	L.010	L.001	10 <sup>e</sup> PERCNT
25TH		5.0		07	L.005	04	L.05	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH		8.5	12.2	.08	.006	.05	L.05	L.010	.003	50 <sup>e</sup> MEDIANE
75TH		15.0		09	.009	06	L.05	L.010	.006	75 <sup>e</sup>
90TH		19.0		10	.013	08	.06	L.015	.011	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE	28302P NICKEL EXTRBLE	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	ARSENIC DISSOLVED	
	SUBM ID	MN MG/L	MN MG/L	FE MG/L	FE MG/L	N MG/L	CU MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0124		26(8)	1(0)	26(1)	24(3)	26(6)	26(2)	19(13)	ECHANTILLONS(IND.)
LOW			L.01	.060	L.05	L.001	L.001	L.001	L.0005	MINIMUM
HIGH			.96	.060	24.0	.045	.042	.140	.019	MAXIMUM
AVERAGE			.13*	3.824*	3.824*	.010*	.007*	.015*	.0046*	MOYENNE
STD.DEV.			.23*		5.477*	.010*	.009*	.027*	.0041*	ECART-TYPE
PERCNT:10TH			L.01		10	L.001	L.001	.002	L.0005	10 <sup>e</sup> PERCNT
25TH			L.01		19	.003	.002	.003	.0006	25 <sup>e</sup>
MEDIAN 50TH			.03		1.225	.008	.005	.007	L.005	50 <sup>e</sup> MEDIANE
75TH			.14		6.20	.013	.010	.012	.005	75 <sup>e</sup>
90TH			.24		8.80	.019	.015	.030	.006	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE	80311P MERCURY EXTRBLE.	82302P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	RESIDUE FIXED NONFILTR	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	BA MG/L	HG UG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	25(0)	25(25)	24(14)		7(7)	25(9)	15(0)	15(0)	ECHANTILLONS(IND.)
LOW		.12	L.05	L.001		L.05	L.001	2.	2.	MINIMUM
HIGH		.80	L.10	.004		L.05	.021	2234.	2026.	MAXIMUM
AVERAGE		.22		.001*			.005*	408.	369.	MOYENNE
STD.DEV.		.14		.001*			.005*	611.	559.	ECART-TYPE
PERCNT:10TH		15	L.05	L.001			L.001	7.	?	10 <sup>e</sup> PERCNT
25TH		17	L.05	L.001		L.05	L.001	35.	27	25 <sup>e</sup>
MEDIAN 50TH		.19	L.05	L.001		L.05	.004	221.	190.	50 <sup>e</sup> MEDIANE
75TH		21	L.05	.002		L.05	.006	406	366	75 <sup>e</sup>
90TH		30	L.05	.002			.012	1352	1254	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values. Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10KA0003** LAT. **65 D 7M**LONG. **126 D 17M**UTM **09 628000E 7224000 N**  
JUN 05, 1971 TO/À OCT 07, 1973MACKENZIE RIVER 20 MILES UPSTREAM  
FROM NORMAN WELLS.

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR.N. SECCHI DSC M	10301F PH	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SUBM ID	USIE/CM			PH UNITS					
<b>SAMPLES(FLAGS)</b> 0402	11(0)	17(0)	15(0)	18(0)	15(0)	15(1)	11(0)	15(0)	<b>ECHANTILLONS(IND.)</b>
LOW	140.	83.2	.03	7.2	.11	.001	7.4	.62	MINIMUM
HIGH	330.	371.4	.50	8.2	.56	.048	13.4	2.48	MAXIMUM
AVERAGE	197.	119.3	.16		.27	.019*	10.1	1.53	MOYENNE
STD.DEV.	50.	65.6	.15		.13	.014*	1.5	.43	ECART-TYPE
PERCNT:10TH	160.	91.0	.07	7.5	.12	L.002	9.0	.75	10 <sup>e</sup> PERCNT
25TH	172.	100.4	.08	7.7	.20	.006	9.6	1.39	25 <sup>e</sup>
MEDIAN 50TH	185.	104.3	.09	7.8	.24	.019	10.1	1.61	50 <sup>e</sup> MEDIANE
75TH	212.	110.5	.19	8.0	.32	.024	10.6	1.73	75 <sup>e</sup>
90TH	225.	119.6	.40	8.2	.50	.039	11.3	1.76	90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HCO3 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0402	17(0)	17(0)	17(0)	17(0)	18(0)	13(0)	16(0)	4(0)	<b>ECHANTILLONS(IND.)</b>
LOW	.8	4.4	24.1	5.6	76.	2.2	17.8	.027	MINIMUM
HIGH	1.5	24.4	92.2	34.3	189.	93.0	260.	.054	MAXIMUM
AVERAGE	1.1	7.0	32.36	9.3	118.	13.8	45.7	.047	MOYENNE
STD.DEV.	.2	4.6	15.66	6.5	29.	24.2	59.1	.014	ECART-TYPE
PERCNT:10TH	.8	4.6	25.1	6.5	85.	3.9	20.3		10 <sup>e</sup> PERCNT
25TH	.9	5.1	26.1	7.3	98.	4.8	21.2	.041	25 <sup>e</sup>
MEDIAN 50TH	1.0	5.5	28.5	7.9	112.	6.2	24.8	.054	50 <sup>e</sup> MEDIANE
75TH	1.1	7.2	31.1	8.7	134.	8.2	52.0	.054	75 <sup>e</sup>
90TH	1.4	8.2	33.7	9.4	157.	20.4	61.0		90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR.	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0402	14(8)	15(3)	13(6)	8(2)	3(3)	8(8)	12(8)	17(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.001	.010	.002	L.001	L.07	L.001	.001	3.	MINIMUM
HIGH	.030	.780	L.064	.033	L.07	L.001	L.207	1780.	MAXIMUM
AVERAGE	.006*	.172*	.030*	.012*			.071*	327.	MOYENNE
STD.DEV.	.008*	.237*	.030*	.013*			.101*	452.	ECART-TYPE
PERCNT:10TH	L.001	.024	.002				L.002	20.	10 <sup>e</sup> PERCNT
25TH	L.001	L.05	.004	.001*		L.001	L.002	53.	25 <sup>e</sup>
MEDIAN 50TH	L.001	.06	.005	.007	L.07	L.001	.003	207.	50 <sup>e</sup> MEDIANE
75TH	.008	.22	L.064	.023		L.001	L.207	329.	75 <sup>e</sup>
90TH	.011	.67	L.064				L.207	856.	90 <sup>e</sup>

SECONDARY CODE

07L 07L 94. CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10KC0002 LAT 65 D 40 M 0 S LONG. 128 D 54 M 0 S

UTM 09 505000: 7283000 N  
AUG 08 1969 TO/A OCT 31 1974MOUNTAIN RIVER ABOUT 3 MILES FROM  
MOUTH NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
		USE CM	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0124	22(0)	20(0)	32(0)	30(7)	31(0)	26(0)	32(0)	19(0)	ECHANTILLONS(IND.)
LOW	0440	195.	100.	89.6	L5.	.9	7.7	65.9	-.3	MINIMUM
HIGH	0056	567.	327.	280.	350.	310.	8.3	168.	.8	MAXIMUM
AVERAGE		360.	195.	173.9	42.*	82.4		107.6		MOYENNE
STD.DEV.		102.	65.	46.3	75.*	84.5		25.3		ECART-TYPE
PERCNT:10TH		242.	127.	120.	L5.	1.5	7.8	75.4	-.2	10 <sup>e</sup> PERCNT
25TH		290.	134.	140.5	5.	17.0	8.0	89.0	-.1	25 <sup>e</sup>
MEDIAN 50TH		335.	182.	165.5	15.	56.0	8.1	104.0	.3	50 <sup>e</sup> MEDIANE
75TH		435.	245.	197.5	55.	150.	8.2	123.5	.5	75 <sup>e</sup>
90TH		505.	294.	242.	90.	185.	8.3	140.	.5	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONAT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
		K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0124	26(0)	26(0)	31(0)		27(0)	27(0)	31(0)	32(0)	ECHANTILLONS(IND.)
LOW	0056	.5	1.6	26.7		0.	80.	.9	24.9	MINIMUM
HIGH	0440	3.8	8.6	82.6		0.	205.	15.0	116.	MAXIMUM
AVERAGE		.9	4.6	48.78		0.	126.	3.8	67.7	MOYENNE
STD.DEV.		.7	2.2	14.39		0.	30.	3.2	28.4	ECART-TYPE
PERCNT:10TH		.6	2.0	33.0		0.	91.	1.3	36.8	10 <sup>e</sup> PERCNT
25TH		.6	2.8	37.9		0.	107.	1.8	41.3	25 <sup>e</sup>
MEDIAN 50TH		.7	3.9	45.2		0.	123.	2.1	62.6	50 <sup>e</sup> MEDIANE
75TH		.9	6.7	52.9		0.	150.	5.5	86.0	75 <sup>e</sup>
90TH		.9	7.6	72.3		0.	162.	7.8	111.	90 <sup>e</sup>
SECONDARY CODE				01F				06L	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL	07105L NITROGEN DISSOLVED	15103L PHOSPHORUS TOTAL	15255L PHOSPHORUS DISSOLVED	15313F PHOSPHORUS TOTAL	15363L PHOSPHORUS DISSOLVED	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	
		KJELDAHL N MG/L	NO3 & NO2 N MG/L	P MG/L	ORTHO PO4 P MG/L	INORG. PO4 P MG/L	INORG. PO4 P MG/L	P MG/L	SiO2 MG/L	
SAMPLES(FLAGS)	0124	23(12)	30(0)	3(3)	23(21)	12(4)	22(20)	23(3)	26(0)	ECHANTILLONS(IND.)
LOW	0440	.1	.040	L.003	L.002	L.002	L.001	.003	1.0	MINIMUM
HIGH	0056	2.6	3.60	L.003	.006	.39	.004	.92	4.4	MAXIMUM
AVERAGE		.7*	.296		.002*	.107*	.002*	.114*	2.69	MOYENNE
STD.DEV.		.5*	.633		.001*	.147*	.001*	.200*	.74	ECART-TYPE
PERCNT:10TH		L.5	.065		L.002	L.003	L.001	L.005	1.8	10 <sup>e</sup> PERCNT
25TH		L.5	.090		L.002	L.003	L.001	.006	2.3	25 <sup>e</sup>
MEDIAN 50TH		L.5	.200	L.003	L.002	.038	L.001	.049	2.55	50 <sup>e</sup> MEDIANE
75TH		.6	.230		L.002	.185	L.001	.120	3.4	75 <sup>e</sup>
90TH		1.1	.370		L.003	.36	L.003	.330	3.5	90 <sup>e</sup>
SECONDARY CODE		02L	06F 08L		55F 56L 57L	14L 13L	63F 56L	13F 06L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10KC0002** LAT. **65 D 40 M 0 S** LONG. **128 D 54 M 0 S**UTM **09 505000E 7283000 N**  
AUG 08, 1969 TO/A OCT 31, 1974MOUNTAIN RIVER ABOUT 3 MILES FROM  
MOUTH, NORTHWEST TERRITORIES

		06001L CARBON TOTAL ORGANIC C	08102S OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	31(2)	2(0)	26(2)	24(6)	21(4)	23(21)	24(21)	23(7)	ECHANTILLONS(IND.)
LOW	0056	L.5	12.2	L.05	L.005	.01	L.05	L.010	L.001	MINIMUM
HIGH	0440	170.	14.2	.14	.040	.09	.12	.045	.016	MAXIMUM
AVERAGE		13.8*	13.2	.08*	.009*	.03*	.05*	.013*	.004*	MOYENNE
STD.DEV.		31.4*	1.4	.03*	.008*	.02*	.02*	.008*	.004*	ECART-TYPE
PERCNT:10TH		2.		.05	L.005	L.02	L.05	L.010	L.001	10 <sup>e</sup> PERCNT
25TH		3.0		.07	.005*	L.02	L.05	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH		5.0	13.2	.08	.006	.03	L.05	L.010	.002	50 <sup>e</sup> MEDIANE
75TH		11.0		.09	.010	.04	L.05	.011*	.007	75 <sup>e</sup>
90TH		15.0		.13	.013	.05	L.05	L.015	.008	90 <sup>e</sup>
SECONDARY CODE					02L					CODE DE SECOURS

		25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	
	SUBM ID	MN MG/L	MN MG/L	FE MG/L	FE MG/L	Ni MG/L	CU MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0124	6(5)	25(6)	7(2)	25(1)	23(1)	25(9)	25(1)	19(14)	ECHANTILLONS(IND.)
LOW	0440	L.01	L.01	L.001	L.05	L.001	L.001	.002	L.0005	MINIMUM
HIGH		.05	.88	.040	26.0	.039	.033	.13	.050	MAXIMUM
AVERAGE		.017*	.12*	.019*	4.838*	.010*	.006*	.023*	.0069*	MOYENNE
STD.DEV.		.016*	.19*	.015*	7.089*	.009*	.008*	.029*	.0109*	ECART-TYPE
PERCNT:10TH			L.01		.07	.002	L.001	.002	L.0005	10 <sup>e</sup> PERCNT
25TH		L.01	.01	L.001	.20	.005	L.001	.005	L.0005	25 <sup>e</sup>
MEDIAN 50TH		L.010	.04	.020	1.80	.007	.003	.012	L.005	50 <sup>e</sup> MEDIANE
75TH		L.01	.18	.030	7.90	.011	.010	.028	.005	75 <sup>e</sup>
90TH			.30		13.0	.023	.016	.06	.012	90 <sup>e</sup>
SECONDARY CODE		04L						04P	04L	CODE DE SECOURS

		38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	82302P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	BA MG/L	HG UG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	23(0)	23(23)	23(16)		7(6)	25(12)	13(0)	13(0)	ECHANTILLONS(IND.)
LOW	0056	.20	L.05	L.001		L.05	L.001	.16	.12	MINIMUM
HIGH		.60	L.10	.003		.05	.068	3310.	3080.	MAXIMUM
AVERAGE		.38		.001*		.05*	.007*	516.	472.	MOYENNE
STD.DEV.		.12		.000*		.00*	.013*	879.	819.	ECART-TYPE
PERCNT:10TH		.25	L.05	L.001			L.001	.18	.12	10 <sup>e</sup> PERCNT
25TH		.28	L.05	L.001		L.05	L.001	.81.	.68	25 <sup>e</sup>
MEDIAN 50TH		.36	L.05	L.001		L.05	L.004	264.	247.	50 <sup>e</sup> MEDIANE
75TH		.49	L.05	.001		L.05	.009	472.	410.	75 <sup>e</sup>
90TH		.52	L.10	.001			.011	898.	828.	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

MACKENZIE RIVER SUB BASIN

00NW10KD0001 66 10 0 129 6 30 09 495100 7338300  
MAR 04 1972 TO/A OCT 31 1974

RAMPARTS RIVER ABOUT 2.5 MILES FROM  
MOUTH NORTHWEST TERRITORIES

	000041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00213L SATURATION INDEX (CALCD.)	
SUBM ID	MG/L	MG/L	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNIT	
SAMPLES(FLAGS) 0124	14(0)	18(0)	22(0)	21(0)	21(0)	18(0)	22(0)	18(0)	ECHANTILLONS(IND.)
LOW	94.	51.	43.0	10.	4.3	7.3	28.1	-1.4	MINIMUM
HIGH	565.	325.	281.	400.	300.	8.2	203.	.8	MAXIMUM
AVERAGE	250.	138.	124.4	78.	75.6		84.4		MOYENNE
STD.DEV.	148.	90.	72.0	81.	79.9		52.1		ECART-TYPE
PERCNT:10TH	104.	51.	49.0	20.	7.1	7.4	33.2	-1.4	10 <sup>th</sup> PERCNT
25TH	162.	73.	82.6	30.	13.0	7.6	55.3	-.6	25 <sup>th</sup>
MEDIAN 50TH	202.	103.	99.5	65.	41.0	7.8	63.1	-.4	50 <sup>th</sup> MEDIANE
75TH	274.	166.	157.	80.	120.	8.0	95.4	.3	75 <sup>th</sup>
90TH	533.	316.	257.	120.	150.	8.1	182.	.5	90 <sup>th</sup>
SECONDARY CODE			03F	11F	73F		01F		CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS) 0124	22(0)	22(0)	22(0)		18(0)	18(0)	22(0)	22(0)	ECHANTILLONS(IND.)
LOW	.5	1.4	13.2		0.	34.	.5	11.6	MINIMUM
HIGH	4.0	10.5	79.7		0.	247.	2.4	90.2	MAXIMUM
AVERAGE	1.1	4.4	35.66		0.	102.	1.4	41.4	MOYENNE
STD.DEV.	.8	2.9	19.81		0.	70.	.5	25.0	ECART-TYPE
PERCNT:10TH	.6	1.6	15.6		0.	40.	.9	14.0	10 <sup>th</sup> PERCNT
25TH	.7	2.4	22.6		0.	55.	.9	25.3	25 <sup>th</sup>
MEDIAN 50TH	.8	3.2	29.40		0.	74.	1.3	32.5	50 <sup>th</sup> MEDIANE
75TH	1.1	5.8	49.0		0.	107.	1.8	60.9	75 <sup>th</sup>
90TH	1.3	9.3	64.8		0.	247.	2.1	84.6	90 <sup>th</sup>
SECONDARY CODE			01F				06L	04L 06L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313F PHOSPHORUS TOTAL INORG. PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	
SUBM ID	N MG/L	N MG/L	P MG/L	MG/L	MG/L	P MG/L	P MG/L	SiO2 MG/L	
SAMPLES(FLAGS) 0124	19(3)	20(1)	3(0)	19(12)	10(0)	19(8)	20(1)	22(0)	ECHANTILLONS(IND.)
LOW	L.5	L.001	.003	L.002	.005	L.001	L.005	1.0	MINIMUM
HIGH	3.3	.530	.016	.006	.88	.010	.92	4.4	MAXIMUM
AVERAGE	1.0*	.122*	.008	.003*	.169	.004*	.124*	2.55	MOYENNE
STD.DEV.	.8*	.133*	.007	.001*	.286	.002*	.203*	.90	ECART-TYPE
PERCNT:10TH	L.5	.020		L.002	.006	L.001	.017	1.5	10 <sup>th</sup> PERCNT
25TH	.5	.030		L.002	.011	L.001	.025	1.9	25 <sup>th</sup>
MEDIAN 50TH	.7	.055	.006	L.003	.037	.004	.059	2.65	50 <sup>th</sup> MEDIANE
75TH	.9	.210		.003	.19	.005	.135	2.9	75 <sup>th</sup>
90TH	2.6	.280		.005	.665	.006	.260	4.1	90 <sup>th</sup>
SECONDARY CODE	02L	06F 06L		56L 55F	13L	56L 63F	13F 06L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10KD0001** LAT. **66 D 10 M 0 S** LONG. **129 D 6 M 30 S**UTM **09 495100E 7338300 N**  
MAR 04, 1972 TO/À OCT 31, 1974RAMPARTS RIVER ABOUT 2.5 MILES FROM  
MOUTH, NORTHWEST TERRITORIES

		06001L CARBON TOTAL ORGANIC	08102S OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	C MG/L	O2 MG/L	F MG/L	LI MG/L	B MG/L	V MG/L	CR MG/L	CO MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0124</b>	<b>22(0)</b>	<b>2(0)</b>	<b>22(2)</b>	<b>21(5)</b>	<b>17(0)</b>	<b>20(18)</b>	<b>21(20)</b>	<b>21(4)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>4.0</b>	<b>11.8</b>	<b>L.05</b>	<b>L.005</b>	<b>.03</b>	<b>L.05</b>	<b>L.010</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>38.0</b>	<b>12.0</b>	<b>.17</b>	<b>.036</b>	<b>.13</b>	<b>.10</b>	<b>.035</b>	<b>.022</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>14.6</b>	<b>11.9</b>	<b>.10*</b>	<b>.009*</b>	<b>.06</b>	<b>.05*</b>	<b>.012*</b>	<b>.005*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>8.6</b>	<b>.1</b>	<b>.03*</b>	<b>.008*</b>	<b>.03</b>	<b>.01*</b>	<b>.006*</b>	<b>.005*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>5.0</b>		<b>.05</b>	<b>L.005</b>	<b>.03</b>	<b>L.05</b>	<b>L.010</b>	<b>L.001</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>9.0</b>		<b>.07</b>	<b>.005</b>	<b>.04</b>	<b>L.05</b>	<b>L.010</b>	<b>.002</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>13.5</b>	<b>11.9</b>	<b>.10</b>	<b>.005</b>	<b>.05</b>	<b>L.05</b>	<b>L.010</b>	<b>.003</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>17.0</b>		<b>.11</b>	<b>.010</b>	<b>.09</b>	<b>L.05</b>	<b>L.010</b>	<b>.005</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>28.0</b>		<b>.14</b>	<b>.019</b>	<b>.10</b>	<b>.07*</b>	<b>L.015</b>	<b>.009</b>	<b>90<sup>e</sup></b>
SECONDARY CODE						02L	CODE DE SECOURS			

		25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	
	SUBM ID	MN MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0124</b>		<b>22(2)</b>	<b>1(0)</b>	<b>22(0)</b>	<b>21(1)</b>	<b>22(1)</b>	<b>22(4)</b>	<b>17(13)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>L.01</b>	<b>.310</b>	<b>.28</b>	<b>L.001</b>	<b>L.001</b>	<b>L.001</b>	<b>L.0005</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>.99</b>	<b>.310</b>	<b>31.2</b>	<b>.044</b>	<b>.052</b>	<b>.140</b>	<b>.011</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.14*</b>		<b>6.054</b>	<b>.012*</b>	<b>.010*</b>	<b>.034*</b>	<b>.0047*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.22*</b>		<b>8.861</b>	<b>.011*</b>	<b>.012*</b>	<b>.042*</b>	<b>.0034*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>			<b>.01</b>		<b>.57</b>	<b>.003</b>	<b>.002</b>	<b>L.001</b>	<b>L.0005</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>.03</b>		<b>1.00</b>	<b>.005</b>	<b>.003</b>	<b>.003</b>	<b>L.0005</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>.06</b>		<b>1.850</b>	<b>.007</b>	<b>.005</b>	<b>.015</b>	<b>L.005</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>.22</b>		<b>6.50</b>	<b>.014</b>	<b>.012</b>	<b>.047</b>	<b>L.005</b>	<b>75<sup>e</sup></b>
<b>90TH</b>			<b>.35</b>		<b>22.0</b>	<b>.027</b>	<b>.026</b>	<b>.094</b>	<b>.010</b>	<b>90<sup>e</sup></b>
SECONDARY CODE							04P	04L	CODE DE SECOURS	

		38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	82302P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	BA MG/L	HG UG/L	PB MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0124</b>	<b>21(0)</b>	<b>20(20)</b>	<b>21(13)</b>		<b>5(5)</b>	<b>22(12)</b>	<b>14(0)</b>	<b>14(2)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.03</b>	<b>L.05</b>	<b>L.001</b>		<b>L.05</b>	<b>L.001</b>	<b>1.</b>	<b>L.1.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.21</b>	<b>L.10</b>	<b>.003</b>		<b>L.05</b>	<b>.040</b>	<b>2110.</b>	<b>1916.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.08</b>		<b>.001*</b>			<b>.006*</b>	<b>319.</b>	<b>288.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.05</b>		<b>.001*</b>			<b>.009*</b>	<b>598.</b>	<b>545.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.04</b>	<b>L.05</b>	<b>L.001</b>			<b>L.001</b>	<b>3</b>	<b>L.1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.05</b>	<b>L.05</b>	<b>L.001</b>		<b>L.05</b>	<b>L.001</b>	<b>6.</b>	<b>2.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.06</b>	<b>L.05</b>	<b>L.001</b>		<b>L.05</b>	<b>.002*</b>	<b>58.</b>	<b>48.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.10</b>	<b>L.05</b>	<b>.001</b>		<b>L.05</b>	<b>.006</b>	<b>175.</b>	<b>155.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.12</b>	<b>L.10</b>	<b>.002</b>			<b>.010</b>	<b>1012.</b>	<b>924.</b>	<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10LA0003 LAT 67 D 21 M 30 S LONG 133 D 33 M 30 S

UTM 08 561900E 7471900 N  
JUN 08 1960 TO/A OCT 09 1979MACKENZIE RIVER ABOVE ARTIC RED RIVER  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USF CM								ECHANTILLONS(IND.)
LOW	0056	113.	96.	60.1	15.	.4	6.4	61.4	-1.6	MINIMUM
HIGH	0440	411.	237.	205.	275.	1000.	8.7	132.	.8	MAXIMUM
AVERAGE	0124	269.	153.	123.2	32.*	96.9*		91.6		MOYENNE
STD.DEV.		51.	29.	22.7	38.*	155.1*		11.8		ECART-TYPE
PERCNT:10TH		217.	116.	96.7	5.	4.0	7.5	75.1	-.4	10 <sup>e</sup> PERCNT
25TH		237.	133.	111.5	10.	7.5	7.7	85.1	-.3	25 <sup>e</sup>
MEDIAN 50TH		262.	148.	121.5	20.	37.0	8.0	91.5	.0	50 <sup>e</sup> MEDIANE
75TH		308.	175.	139.0	40.	110.	8.1	101.	.1	75 <sup>e</sup>
90TH		341.	194.	146.	65.	235.	8.2	104.	.3	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16301L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0402	.6	1.6	17.3	3.2	0.	77.	.4	18.0	MINIMUM
HIGH	0124	4.3	66.7	56.3	17.6	0.	161.	61.	81.9	MAXIMUM
AVERAGE	0440	1.0	7.6	35.65	8.2	0.	112.	7.9	35.3	MOYENNE
STD.DEV.	0056	.4	6.5	5.55	2.8	0.	14.	6.4	13.9	ECART-TYPE
PERCNT:10TH		.8	3.7	29.6	4.9	0.	92.	1.5	22.9	10 <sup>e</sup> PERCNT
25TH		.8	4.9	32.2	6.6	0.	104.	4.8	27.0	25 <sup>e</sup>
MEDIAN 50TH		1.0	6.6	35.0	8.0	0.	112.	6.8	31.2	50 <sup>e</sup> MEDIANE
75TH		1.1	9.2	39.0	9.1	0.	123.	9.5	39.2	75 <sup>e</sup>
90TH		1.3	11.5	42.3	12.0	0.	128.	14.9	60.8	90 <sup>e</sup>
SECONDARY CODE		05L 01L 02L	05L 01L	03L 02L 01F				07L 01L 06L*	04L 06L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07307L NITROGEN DISSOLVED NITRATE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07652L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	14102L SILICA REACTIVE SiO2 MG/L	14201L SILICON SOL. ORTHO SILICATE Si MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0056	L.1	L.001	.000	L.1	.13	.09	.80	1.26	MINIMUM
HIGH	0440	1.3	1.10	.542	.5	.51	.29	6.20	1.83	MAXIMUM
AVERAGE	0124	.6*	.142*	.097	.1*	.25	.173	3.30	1.55	MOYENNE
STD.DEV.	0402	.3*	.198*	.130	.1*	.10	.104	.72	.17	ECART-TYPE
PERCNT:10TH		.3	.02	.000	L.1	.16		2.4		10 <sup>e</sup> PERCNT
25TH		L.5	.038	.023	L.1	.18		2.95	1.46	25 <sup>e</sup>
MEDIAN 50TH		L.5	.085	.045	.1	.25	.14	3.40	1.52	50 <sup>e</sup> MEDIANE
75TH		.6	.165	.113	.1	.28		3.70	1.66	75 <sup>e</sup>
90TH		1.1	.280	.249	.2	.32		3.80		90 <sup>e</sup>
SECONDARY CODE		02L	06L 06F	06L 08L	51L			01L 05L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10LA0003 LAT. 67 D 21M 30 S LONG. 133 D 33M 30 S

UTM 08 561900E 7471900N  
AUG 05, 1967 TO/A OCT 09, 1979MACKENZIE RIVER ABOVE ARTIC RED RIVER  
NORTHWEST TERRITORIES

SUBM ID		15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313F PHOSPHORUS TOTAL INORG. PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15403L PHOSPHATE TOTAL	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08101F OXYGEN DISSOLVED DO O2	
		P MG/L	P MG/L	P MG/L	P MG/L	PO4 MG/L	C MG/L	C MG/L	MG/L	
SAMPLES(FLAGS)	0124	14(4)	30(24)	13(0)	2(1)	13(0)	49(1)	49(0)	8(0)	ECHANTILLONS(IND.)
LOW	0402	L.002	L.002	.008	L.003	.22	L.5	10.0	8.8	MINIMUM
HIGH	0001	.069	.120	.28	.005	1.4	31.0	27.0	13.0	MAXIMUM
AVERAGE	0440	.015*	.007*	.082	.004*	.69	10.7*	18.1	10.6	MOYENNE
STD.DEV.	0056	.018*	.022*	.100	.001*	.42	6.9*	4.0	1.5	ECART-TYPE
PERCNT:10TH		L.003	L.002	.010		.25	4.0	13.0		10 <sup>e</sup> PERCNT
25TH		L.003	L.002	.013		.39	6.	15.0	9.6	25 <sup>e</sup>
MEDIAN 50TH		.011	L.002	.033	.004*	.56	8.0	18.0	10.2	50 <sup>e</sup> MEDIANE
75TH		.014	L.002	.094		.75	13.0	21.0	11.8	75 <sup>e</sup>
90TH		.032	.007	.27		1.4	25.0	24.0		90 <sup>e</sup>
SECONDARY CODE		01L	55F 57L 56L	13L 14L					02S	CODE DE SECOURS

SUBM ID		05105L BORON DISSOLVED	03301P LITHIUM EXTRBLE.	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	
		B MG/L	LI MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	FE MG/L	FE MG/L	
SAMPLES(FLAGS)	0001	24(1)	26(5)	28(24)	34(30)	48(45)	40(7)	49(13)	52(0)	ECHANTILLONS(IND.)
LOW	0440	L.02	L.005	L.001	L.010	L.001	L.01	L.001	.10	MINIMUM
HIGH	0124	.09	.037	.15	.040	.01	.655	.29	12.5	MAXIMUM
AVERAGE	0402	.04*	.008*	.0527*	.013*	.009*	.108*	.046*	2.985	MOYENNE
STD.DEV.	0056	.02*	.007*	.0303*	.007*	.003*	.133*	.065*	3.433	ECART-TYPE
PERCNT:10TH		.03	L.005	.003	L.010	L.001	L.010	L.001	.16	10 <sup>e</sup> PERCNT
25TH		.03	.005	L.0500	L.010	L.010	.020	.01	.305	25 <sup>e</sup>
MEDIAN 50TH		.04	.006	L.0500	L.010	L.010	.050	.02	1.400	50 <sup>e</sup> MEDIANE
75TH		.06	.008	L.0500	L.015	L.010	.150	.05	4.550	75 <sup>e</sup>
90TH		.07	.014	.09	.015	L.010	.295	.14	7.80	90 <sup>e</sup>
SECONDARY CODE		02L		02P		04L 07L 05L	03L	07L 04L 01L	01L	CODE DE SECOURS

SUBM ID		28101L NICKEL DISSOLVED	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30304P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	33303L ARSENIC EXTRBLE.	
		NI MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	AS MG/L	
SAMPLES(FLAGS)	0124	1(1)	34(6)	27(4)	40(4)	27(8)	40(2)	21(11)		ECHANTILLONS(IND.)
LOW	0001	L.002	L.001	L.001	L.001	L.001	.001	L.0005		MINIMUM
HIGH	0402	L.002	L.05	.013	.026	.038	.10	.013		MAXIMUM
AVERAGE	0440	.010*	.004*	.004*	.006*	.006*	.017*	.0040*		MOYENNE
STD.DEV.	0056	.010*	.010*	.003*	.005*	.007*	.019*	.0030*		ECART-TYPE
PERCNT:10TH			L.002	.001	.001	L.001	.003	L.0005		10 <sup>e</sup> PERCNT
25TH			.003	.001	.002	.002	.005	.0007		25 <sup>e</sup>
MEDIAN 50TH			.007	.002	.005	.003	.009	L.005		50 <sup>e</sup> MEDIANE
75TH			.013	.005	.009*	.007	.025	.005		75 <sup>e</sup>
90TH			.016	L.01	.013	.010	.039	.006		90 <sup>e</sup>
SECONDARY CODE			01P	07L 06L	06L 06P	04L 07L	05P 04L	04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10LA0003 LAT. 67 D 21 M 30 S LONG. 133 D 33 M 30 S

UTM 08 561900E 7471900 N  
AUG 07 1969 TO/A OCT 09 1979MACKENZIE RIVER ABOVE ARTIC RED RIVER  
NORTHWEST TERRITORIES

		27302P COBALT EXTBL.	34301P SELENIUM EXTBL.	38301P STRONTIUM EXTBL.	42301P MOLYBDENUM EXTBL.	47301P SILVER EXTBL.	48103L CADMIUM DISSOLVED	48302P CADMIUM EXTBL.	56301P BARIUM EXTBL.	
	SUBM ID	CO MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	BA MG/L	
SAMPLES(FLAGS)	0124	38(12)		26(0)	32(32)		9(7)	38(28)	12(8)	ECHANTILLONS(IND.)
LOW	0402	L.001		.10	L.01		L.001	L.001	L.0	MINIMUM
HIGH	0001	.015		.35	L.10		.002	L.01	.4	MAXIMUM
AVERAGE	0056	.004*		.21			.001*	.001*	.1*	MOYENNE
STD.DEV.		.004*		.05			.000*	.001*	.1*	ECART-TYPE
PERCNT:10TH		L.001		.15	L.05			L.001	L.0	10 <sup>e</sup> PERCNT
25TH		.001		.17	L.05		L.001	L.001	L.0	25 <sup>e</sup>
MEDIAN 50TH		.002		.20	L.05		L.001	L.001	.1	50 <sup>e</sup> MEDIANE
75TH		.004		.24	L.05		L.001	.001	L.1	75 <sup>e</sup>
90TH		L.01		.26	L.10			.002	L.1	90 <sup>e</sup>
SECONDARY CODE		01P					01L	01P		CODE DE SECOURS

		74301P TUNGSTEN EXTBL.	80311P MERCURY EXTBL.	81302P THALLIUM EXTBL.	82103L LEAD DISSOLVED	82302P LEAD EXTBL.	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	W MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0056		7(7)		26(20)	38(25)	64(8)	49(2)	34(7)	ECHANTILLONS(IND.)
LOW	0001		L.05		L.001	L.001	L.05	L.1	L.1	MINIMUM
HIGH	0440		L.05		L.05	.023	.20	1385.	882.	MAXIMUM
AVERAGE	0124				.004*	.005*	.11*	197.*	158.*	MOYENNE
STD.DEV.	0402				.010*	.005*	.03*	294.*	227.*	ECART-TYPE
PERCNT:10TH					L.001	L.001	.07	2.	L.1	10 <sup>e</sup> PERCNT
25TH			L.05		L.001	L.001	.08	19.	2.	25 <sup>e</sup>
MEDIAN 50TH			L.05		L.001	L.004	L.10	89.	47.	50 <sup>e</sup> MEDIANE
75TH			L.05		.002	.005	.13	193.	176.	75 <sup>e</sup>
90TH					.010	.01	.15	550.	458.	90 <sup>e</sup>
SECONDARY CODE					01L 04L	01L	04L 02L	04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10LA0004 LAT. 67 D 26 M 0 S LONG. 133 D 46 M 0 S

UTM 08 553000E 7480000 N  
JUN 08, 1960 TO/A NOV 01, 1974

ARCTIC RED RIVER ABOUT 1.5 MILES FROM  
MOUTH, NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0440	179.	66.	55.8	L5.	.5	7.1	36.3	-.9	MINIMUM
HIGH	0001	805.	431.	428.	350.	900.	8.5	423.	1.5	MAXIMUM
AVERAGE	0056	323.	181.*	162.1	56.*	105.0		102.6		MOYENNE
STD.DEV.		99.	65.*	67.1	69.*	169.6		52.7		ECART-TYPE
PERCNT:10TH		244.	113.	99.4	5.	3.5	7.6	64.3	-.3	10 <sup>e</sup> PERCNT
25TH		274.	142.	125.5	10.	11.0	7.9	80.3	.0	25 <sup>e</sup>
MEDIAN 50TH		307.	176.	149.5	33.	56.5	8.0	98.5	.2	50 <sup>e</sup> MEDIANE
75TH		360.	207.	179.5	60.	110.	8.2	109.	.5	75 <sup>e</sup>
90TH		387.	252.	222.	130.	230.0	8.3	123.	.8	90 <sup>e</sup>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0124	L.1	1.6	18.0	1.2	0.	44.	.1	9.5	MINIMUM
HIGH	0440	3.3	12.5	117.	33.0	0.	516.	14.8	134.	MAXIMUM
AVERAGE	0056	.9*	4.5	44.27	10.9	0.	121.	2.4*	60.0	MOYENNE
STD.DEV.	0402	.5*	2.9	16.14	5.4	0.	64.	3.4*	27.6	ECART-TYPE
PERCNT:10TH		.6	2.1	30.7	4.4	0.	78.	.4	27.8	10 <sup>e</sup> PERCNT
25TH		.6	2.5	35.1	7.3	0.	98.	.6	39.3	25 <sup>e</sup>
MEDIAN 50TH		.7	3.3	42.00	10.8	0.	117.	1.0	60.8	50 <sup>e</sup> MEDIANE
75TH		.9	5.0	47.1	13.4	0.	132.	1.9	69.0	75 <sup>e</sup>
90TH		1.2	9.3	64.0	14.8	0.	138.	7.5	96.0	90 <sup>e</sup>
SECONDARY CODE		02L 01L 05L	01L 05L	01F 02L 03L				06L 01L 07L	06L 04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07307L NITROGEN DISSOLVED NITRATE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07652L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	14102L SILICA REACTIVE SiO2 MG/L	14201L SILICON SOL. ORTHO SILICATE Si MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0402	L.5	L.001	.045	L.1	.25		.9	.90	MINIMUM
HIGH	0440	5.7	.590	.136	.3	.91		6.9	1.56	MAXIMUM
AVERAGE	0001	.9*	.120*	.073	.1*	.49		2.89	1.17	MOYENNE
STD.DEV.	0056	1.1*	.118*	.034	.1*	.26		.98	.24	ECART-TYPE
PERCNT:10TH		L.5	.023		L.1			1.8		10 <sup>e</sup> PERCNT
25TH		L.5	.043	.045	L.1	.28		2.4	.95	25 <sup>e</sup>
MEDIAN 50TH		L.5	.097	.068	L.1	.41		2.8	1.15	50 <sup>e</sup> MEDIANE
75TH		.6	.150	.090	.1	.70		3.4	1.27	75 <sup>e</sup>
90TH		1.7	.220		.3			4.1		90 <sup>e</sup>
SECONDARY CODE		02L	06L 06F					01L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10LA0004 LAT. 67 D 26 M 0 S LONG. 133 D 46 M 0 S

UTM 08 553000E 7480000N  
MAY 29 1969 TO/A NOV 01 1974ARCTIC RED RIVER ABOUT 1.5 MILES FROM  
MOUTH NORTHWEST TERRITORIES

		15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313F PHOSPHORUS TOTAL INORG. PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15403L PHOSPHATE TOTAL	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08101F OXYGEN DISSOLVED DO	
	SUBM ID	P MG/L	P MG/L	P MG/L	P MG/L	PO4 MG/L	C MG/L	C MG/L	O2 MG/L	
SAMPLES(FLAGS)	0124	8(2)	33(23)	19(5)	2(2)	6(0)	37(0)	37(0)	4(0)	ECHANTILLONS(IND.)
LOW	0402	L.003	L.002	L.002	L.003	.04	2.0	7.0	6.2	MINIMUM
HIGH	0001	.018	.020	.90	L.003	2.1	35.0	82.0	12.4	MAXIMUM
AVERAGE	0056	.009*	.003*	.145*		.76	11.8	21.6	10.1	MOYENNE
STD.DEV.	0440	.006*	.003*	.249*		.78	8.1	12.6	2.8	ECART-TYPE
PERCNT:10TH			L.002	L.002			4.0	13.0		10 <sup>th</sup> PERCNT
25TH		.003*	L.002	L.003		.22	5.0	15.0	8.2	25 <sup>th</sup>
MEDIAN 50TH		.010	L.002	.007	L.003	.51	10.0	20.	10.9	50 <sup>th</sup> MEDIANE
75TH		.015	.003	.28		1.2	15.0	22.0	12.0	75 <sup>th</sup>
90TH			.005	.55			26.0	31.0		90 <sup>th</sup>
SECONDARY CODE		01L	55F 57L 56L	13L 14L					02S	CODE DE SECOURS

		05105L BORON DISSOLVED	03301P LITHIUM EXTRBL.	23301P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	
	SUBM ID	B MG/L	LI MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	FE MG/L	FE MG/L	
SAMPLES(FLAGS)	0440	22(0)	26(3)	25(22)	26(22)	26(26)	40(15)	30(3)	35(0)	ECHANTILLONS(IND.)
LOW	0001	.01	L.005	L.05	L.010	L.001	L.01	.005	.11	MINIMUM
HIGH	0124	.09	.043	.15	.035	L.010	2.66	.340	34.5	MAXIMUM
AVERAGE	0056	.05	.011*	.0584*	.012*		.168*	.112*	6.480	MOYENNE
STD.DEV.	0402	.02	.008*	.0248*	.006*		.462*	.106*	8.798	ECART-TYPE
PERCNT:10TH		.02	L.005	L.05	L.010	L.001	L.010	L.010	.17	10 <sup>th</sup> PERCNT
25TH		.03	.006	L.05	L.010	L.01	L.010	.020	.28	25 <sup>th</sup>
MEDIAN 50TH		.06	.008	L.05	L.010	L.010	.020	.080	2.51	50 <sup>th</sup> MEDIANE
75TH		.07	.010	L.05	.012	L.01	.115	.180	9.40	75 <sup>th</sup>
90TH		.07	.022	.09	.018	L.010	.380	.280	21.5	90 <sup>th</sup>
SECONDARY CODE		02L				04L 05L 07L	04L 03L	04L 01L 07L	01L	CODE DE SECOURS

		28101L NICKEL DISSOLVED	28302P NICKEL EXTRBL.	29105L COPPER DISSOLVED	29305P COPPER EXTRBL.	30105L ZINC DISSOLVED	30304P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	33303L ARSENIC EXTRBL.	
	SUBM ID	NI MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	AS MG/L	
SAMPLES(FLAGS)	0124	1(1)	26(1)	15(3)	32(10)	15(4)	33(6)	18(11)		ECHANTILLONS(IND.)
LOW	0402	L.002	L.001	L.001	L.001	L.001	.001	L.0005		MINIMUM
HIGH	0056	L.002	.074	.009	.075	.005	.25	.007		MAXIMUM
AVERAGE	0001		.013*	.004*	.010*	.002*	.025*	.0043*		MOYENNE
STD.DEV.	0440		.015*	.003*	.014*	.001*	.048*	.0021*		ECART-TYPE
PERCNT:10TH			.003	L.001	L.001	L.001	.002	L.0005		10 <sup>th</sup> PERCNT
25TH			.004	.001	.002	L.001	.003	L.005		25 <sup>th</sup>
MEDIAN 50TH			.007	.003	.004	.001	L.01	L.0050		50 <sup>th</sup> MEDIANE
75TH			.018	.006	L.010	.004	.016	.005		75 <sup>th</sup>
90TH			.029	.008	.019	.004	.06	.006		90 <sup>th</sup>
SECONDARY CODE				07L	06L	07L	05P 04L	04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10LA0004 LAT. 67 D 26 M 0 S LONG. 133 D 46 M 0 S

UTM 08 553000E 7480000 N  
AUG 07, 1969 TO/A NOV 01, 1974ARCTIC RED RIVER ABOUT 1.5 MILES FROM  
MOUTH, NORTHWEST TERRITORIES

		27302P COBALT EXTRBLE. CO MG/L	34301P SELENIUM EXTRBLE. SE MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	47301P SILVER EXTRBLE. AG MG/L	48103L CADMIUM DISSOLVED CD MG/L	48302P CADMIUM EXTRBLE. CD MG/L	56301P BARIUM EXTRBLE. BA MG/L	
SAMPLES(FLAGS)	0124	26(7)		26(0)	25(25)		7(7)	26(16)		ECHANTILLONS(IND.)
LOW	0402	L.001		.07	L.05		L.001	L.001		MINIMUM
HIGH	0056	.027		.71	L.10		L.001	.002		MAXIMUM
AVERAGE		.005*		.21				.001*		MOYENNE
STD.DEV.		.006*		.14				.000*		ECART-TYPE
PERCNT:10TH		L.001		.10	L.05			L.001		10 <sup>e</sup> PERCNT
25TH		L.001		.14	L.05		L.001	L.001		25 <sup>e</sup>
MEDIAN 50TH		.004		.18	L.05		L.001	L.001		50 <sup>e</sup> MEDIANE
75TH		.006		.24	L.05		L.001	.001		75 <sup>e</sup>
90TH		.011		.36	L.10			.002		90 <sup>e</sup>
SECONDARY CODE							01L			CODE DE SECOURS

		74301P TUNGSTEN EXTRBLE. W MG/L	80311P MERCURY EXTRBLE. HG UG/L	81302P THALLIUM EXTRBLE. TL MG/L	82103L LEAD DISSOLVED PB MG/L	82302P LEAD EXTRBLE. PB MG/L	09105L FLUORIDE DISSOLVED F MG/L	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SAMPLES(FLAGS)	0124		7(6)		15(13)	32(19)	44(8)	33(2)	27(4)	ECHANTILLONS(IND.)
LOW	0402		L.05		L.001	L.001	L.05	L.1.	L.1.	MINIMUM
HIGH	0440		.51		.006	.018	.39	1110.	1030.	MAXIMUM
AVERAGE	0001		.12*		.002*	.006*	.10*	211.*	206.*	MOYENNE
STD.DEV.	0056		.17*		.001*	.005*	.06*	265.*	268.*	ECART-TYPE
PERCNT:10TH					L.001	L.001	.06	2.	L.1.	10 <sup>e</sup> PERCNT
25TH			L.05		L.001	L.001	.08	40.	23.	25 <sup>e</sup>
MEDIAN 50TH			L.05		L.001	.006	.09	120.	68.	50 <sup>e</sup> MEDIANE
75TH			L.05		L.002	L.010	.10	241.	345.	75 <sup>e</sup>
90TH					.002	.010	.19	596.	613.	90 <sup>e</sup>
SECONDARY CODE					04L	01L	04L 02L	04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960.79

## MACKENZIE RIVER SUB BASIN

00NW10LA0006 66° 47'N 105° 13'W 133 D 6 M 0

JTM 08 583600 7408600

JUN 02 1971 TO/A SEP 19 1973

ARCTIC RED RIVER AT W.S.C. GAUGE ABOVE  
MARTIN HOUSE NORTHWEST TERRITORIES

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3	02075S TURBIDITY LIGHT PENETR. SECCHI DSC	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED	08101F OXYGEN DISSOLVED DO	14201L SILICON SOL. ORTHO SILICATE	
SUBM ID	USIE CM	MG/L	M	PH UNITS	N MG/L	P MG/L	O2 MG/L	SI MG/L	
SAMPLES(FLAGS)	0402	7(0)	14(0)	8(0)	13(0)	13(2)	6(0)	13(0)	ECHANTILLONS(IND.)
LOW		230.	98.2	.06	7.0	.09	7.7	.18	MINIMUM
HIGH		530.	299.5	.28	8.1	.36	12.0	2.17	MAXIMUM
AVERAGE		334.	191.2	.13		.23	10.4	1.15	MOYENNE
STD.DEV.		107.	69.5	.07		.08	1.6	.54	ECART-TYPE
PERCNT:10TH			101.7		7.3	.13		.46	10 <sup>th</sup> PERCNT
25TH		255.	146.3	.08	7.6	.18	9.5	.82	25 <sup>th</sup>
MEDIAN 50TH		300.	173.1	.12	7.7	.22	10.8	1.24	50 <sup>th</sup> MEDIANE
75TH		410.	272.2	.17	7.9	.26	11.6	1.50	75 <sup>th</sup>
90TH			299.1	8.1	.36	.055		1.54	90 <sup>th</sup>
SECONDARY CODE									CODE DE SECOURS

	19105L POTASSIUM DISSOLVED	11105L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06202F BICARBONT. LAB CALC.	17207L CHLORIDE DISSOLVED	16305L SULPHATE DISSOLVED	13105L ALUMINUM DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	HC03 MG/L	CL MG/L	SO4 MG/L	AL MG/L	
SAMPLES(FLAGS)	0402	14(0)	14(0)	14(0)	13(0)	11(2)	12(0)	1(0)	ECHANTILLONS(IND.)
LOW		.6	2.1	27.7	7.1	.0	40.0	.162	MINIMUM
HIGH		1.1	12.4	74.6	27.9	305.	7.8	97.6	MAXIMUM
AVERAGE		.8	4.8	47.96	17.4	151.	3.1	62.6	MOYENNE
STD.DEV.		.1	2.9	16.36	7.0	59.	2.9	18.7	ECART-TYPE
PERCNT:10TH		.6	2.1	28.9	7.2	79.	.2	41.3	10 <sup>th</sup> PERCNT
25TH		.7	3.0	37.0	13.1	122.	L.3	49.0	25 <sup>th</sup>
MEDIAN 50TH		.8	3.7	44.50	15.1	144.	3.2	56.4	50 <sup>th</sup> MEDIANE
75TH		.9	6.3	65.8	26.2	165.	5.6	77.8	75 <sup>th</sup>
90TH		1.0	7.9	73.8	27.5	201.	5.8	86.0	90 <sup>th</sup>
SECONDARY CODE									CODE DE SECOURS

	25105L MANGANESE DISSOLVED	26104L IRON DISSOLVED	29107L COPPER DISSOLVED	30107L ZINC DISSOLVED	33105L ARSENIC DISSOLVED	48103L CADMIUM DISSOLVED	82104L LEAD DISSOLVED	10401L RESIDUE NONFILTR.	
SUBM ID	MN MG/L	FE MG/L	CU MG/L	ZN MG/L	AS MG/L	CD MG/L	PB MG/L	MG/L	
SAMPLES(FLAGS)	0402	14(5)	14(1)	12(3)	9(2)	1(0)	9(9)	14(2)	ECHANTILLONS(IND.)
LOW		L.001	.005	.001	L.001	.08	L.001	L1.	MINIMUM
HIGH		.050	1.00	L.064	.020	.08	L.001	794.	MAXIMUM
AVERAGE		.020	.215	.020	.006		.039	204.	MOYENNE
STD.DEV.		.021	.277	.020	.006		.083	250.	ECART-TYPE
PERCNT:10TH		L.001	L.05	.001			L.001	L1.	10 <sup>th</sup> PERCNT
25TH		L.001	.06	.002	.002		.001	33.	25 <sup>th</sup>
MEDIAN 50TH		.010	.110	.004	.003		L.001	78.	50 <sup>th</sup> MEDIANE
75TH		.043	.22	.042	.008		L.001	380.	75 <sup>th</sup>
90TH		.050	.61	L.064			L.207	589.	90 <sup>th</sup>
SECONDARY CODE		07L	07L				L.207	04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10LB0002** LAT. **66 D 14 M 30 S** LONG. **128 D 43 M 0 S**UTM **09 512700E 7346700 N**  
MAR 04, 1972 TO/À OCT 31, 1974MACKENZIE RIVER ABOUT 2.5 MILES ABOVE  
FORT GOOD HOPE, NORTHWEST TERRITORIES

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
<b>SAMPLES(FLAGS)</b> 0124	16(0)	21(0)	26(0)	24(1)	25(0)	20(0)	26(0)	20(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>184.</b>	<b>97.</b>	<b>84.2</b>	<b>L5.</b>	<b>2.7</b>	<b>7.6</b>	<b>61.5</b>	<b>-6</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>324.</b>	<b>179.</b>	<b>141.</b>	<b>200.</b>	<b>260.</b>	<b>8.3</b>	<b>102.</b>	<b>.6</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>257.</b>	<b>137.</b>	<b>115.9</b>	<b>49.*</b>	<b>78.4</b>		<b>86.5</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>47.</b>	<b>25.</b>	<b>16.4</b>	<b>55.*</b>	<b>77.1</b>		<b>10.9</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>192.</b>	<b>104.</b>	<b>89.6</b>	<b>10.</b>	<b>3.8</b>	<b>7.7</b>	<b>70.3</b>	<b>-.3</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>215.</b>	<b>117.</b>	<b>100.</b>	<b>10.</b>	<b>7.7</b>	<b>7.8</b>	<b>77.2</b>	<b>-.2</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>258.</b>	<b>136.</b>	<b>119.0</b>	<b>30.</b>	<b>54.0</b>	<b>8.0</b>	<b>89.5</b>	<b>.1</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>306.</b>	<b>162.</b>	<b>129.</b>	<b>65.</b>	<b>125.</b>	<b>8.1</b>	<b>95.0</b>	<b>.2</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>314.</b>	<b>164.</b>	<b>133.</b>	<b>120.</b>	<b>175.</b>	<b>8.2</b>	<b>99.1</b>	<b>.4</b>	<b>90<sup>e</sup></b>
SECONDARY CODE			03F	11F	73F		01F		CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
<b>SAMPLES(FLAGS)</b> 0124	26(0)	26(0)	26(0)		21(0)	21(0)	26(0)	25(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.7</b>	<b>3.5</b>	<b>26.5</b>		<b>0.</b>	<b>75.</b>	<b>4.0</b>	<b>17.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>4.5</b>	<b>13.0</b>	<b>50.</b>		<b>0.</b>	<b>124.</b>	<b>15.5</b>	<b>44.7</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.1</b>	<b>7.7</b>	<b>35.22</b>		<b>0.</b>	<b>104.</b>	<b>8.6</b>	<b>28.5</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.7</b>	<b>2.7</b>	<b>5.77</b>		<b>0.</b>	<b>14.</b>	<b>3.7</b>	<b>6.0</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.8</b>	<b>4.4</b>	<b>29.0</b>		<b>0.</b>	<b>86.</b>	<b>4.7</b>	<b>20.2</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>.8</b>	<b>5.4</b>	<b>31.2</b>		<b>0.</b>	<b>94.</b>	<b>5.3</b>	<b>23.8</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.0</b>	<b>7.0</b>	<b>35.50</b>		<b>0.</b>	<b>106.</b>	<b>7.7</b>	<b>29.0</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.1</b>	<b>10.4</b>	<b>38.1</b>		<b>0.</b>	<b>115.</b>	<b>12.1</b>	<b>31.7</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.3</b>	<b>11.5</b>	<b>42.1</b>		<b>0.</b>	<b>121.</b>	<b>14.1</b>	<b>33.6</b>	<b>90<sup>e</sup></b>
SECONDARY CODE			01F				06L	06L 04L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN NO3 & NO2	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS ORTHO PO4	15313F PHOSPHORUS TOTAL INORG. PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	
SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	
<b>SAMPLES(FLAGS)</b> 0124	22(11)	24(2)	3(1)	23(19)	11(0)	23(16)	22(0)	26(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.2</b>	<b>L.001</b>	<b>L.003</b>	<b>L.002</b>	<b>.006</b>	<b>L.001</b>	<b>.008</b>	<b>2.1</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>3.9</b>	<b>.260</b>	<b>.006</b>	<b>.044</b>	<b>.63</b>	<b>.049</b>	<b>.770</b>	<b>4.5</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.8*</b>	<b>.098*</b>	<b>.004*</b>	<b>.004*</b>	<b>.135</b>	<b>.005*</b>	<b>.117</b>	<b>3.36</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.8*</b>	<b>.080*</b>	<b>.002*</b>	<b>.009*</b>	<b>.187</b>	<b>.010*</b>	<b>.175</b>	<b>.57</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.5</b>	<b>.010</b>		<b>L.002</b>	<b>.007</b>	<b>L.001</b>	<b>.010</b>	<b>2.6</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.5</b>	<b>.030</b>		<b>L.002</b>	<b>.017</b>	<b>L.001</b>	<b>.017</b>	<b>2.9</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>L.5</b>	<b>.080</b>	<b>.003</b>	<b>L.002</b>	<b>.077</b>	<b>L.001</b>	<b>.042</b>	<b>3.50</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.8</b>	<b>.155</b>		<b>L.003</b>	<b>.18</b>	<b>.003</b>	<b>.160</b>	<b>3.8</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.2</b>	<b>.200</b>		<b>.004</b>	<b>.30</b>	<b>.007</b>	<b>.290</b>	<b>4.0</b>	<b>90<sup>e</sup></b>
SECONDARY CODE	02L	06L 06F		55F 56L	13L	63F 56L	13F 06L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10LB0002 LAT 66 D 14 M 30 S LONG. 128 D 43 M 0 S

UTM 09 512700E 7346700N

MAR 04 1972 TO/A OCT 31 1974

MACKENZIE RIVER ABOUT 2.5 MILES ABOVE  
FORT GOOD HOPE NORTHWEST TERRITORIES

		06001L CARBON TOTAL ORGANIC C	08102S OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBLE.	05105L BORON DISSOLVED	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	27302P COBALT EXTRBLE.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	25(0)	2(0)	25(1)	25(4)	22(2)	24(21)	25(22)	25(6)	ECHANTILLONS(IND.)
LOW		3.0	11.6	L.05	L.005	L.01	L.05	L.010	L.001	MINIMUM
HIGH		34.0	13.0	.25	.032	.09	.11	.025	.018	MAXIMUM
AVERAGE		11.3	12.3	.09*	.008*	.05*	.05*	.012*	.004*	MOYENNE
STD.DEV.		8.2	1.0	.04*	.006*	.02*	.01*	.003*	.004*	ECART-TYPE
PERCNT:10TH		5.		.05	L.005	.02	L.05	L.010	L.001	10 <sup>e</sup> PERCNT
25TH		6.0		.08	.005	.04	L.05	L.010	.001	25 <sup>e</sup>
MEDIAN 50TH		8.	12.3	.09	.006	.05	L.05	L.010	.003	50 <sup>e</sup> MEDIANE
75TH		13.0		.10	.007	.07	L.05	L.010	.004	75 <sup>e</sup>
90TH		25.0		.11	.016	.08	.07	.015	.011	90 <sup>e</sup>
SECONDARY CODE						02L				CODE DE SECOURS

		25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	28302P NICKEL EXTRBLE.	29305P COPPER EXTRBLE.	30305P ZINC EXTRBLE.	33103L ARSENIC DISSOLVED	
	SUBM ID	MN MG/L	MN MG/L	FE MG/L	FE MG/L	N MG/L	CU MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0124		26(7)		26(0)	25(3)	26(3)	26(3)	19(13)	ECHANTILLONS(IND.)
LOW			L.01		.12	L.001	L.001	L.001	L.0005	MINIMUM
HIGH			1.3		19.0	.056	.041	.22	.007	MAXIMUM
AVERAGE			.15*		4.057	.010*	.007*	.023*	.0041*	MOYENNE
STD.DEV.			.27*		5.645	.012*	.009*	.044*	.0023*	ECART-TYPE
PERCNT:10TH			L.01		.15	L.001	L.001	.002	L.0005	10 <sup>e</sup> PERCNT
25TH			L.01		.20	.004	.002	.003	.0005	25 <sup>e</sup>
MEDIAN 50TH			.06		1.925	.007	.004	.010*	L.005	50 <sup>e</sup> MEDIANE
75TH			.16		4.80	.013	.007	.023	L.005	75 <sup>e</sup>
90TH			.45		16.7	.021	.015	.05	.006	90 <sup>e</sup>
SECONDARY CODE								04P	04L	CODE DE SECOURS

		38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	80311P MERCURY EXTRBLE.	82302P LEAD EXTRBLE.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	BA MG/L	HG UG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	25(0)	25(24)	25(16)		7(7)	26(11)	17(0)	17(2)	ECHANTILLONS(IND.)
LOW		.09	L.05	L.001		L.05	L.001	2.	L.1.	MINIMUM
HIGH		.45	.23	.008		L.05	.042	2978.	2726.	MAXIMUM
AVERAGE		.20	.06*	.002*			.006*	395.	357.*	MOYENNE
STD.DEV.		.07	.04*	.002*			.009*	739.	678.*	ECART-TYPE
PERCNT:10TH		.12	L.05	L.001			L.001	3.	L.1.	10 <sup>e</sup> PERCNT
25TH		.17	L.05	L.001		L.05	L.001	21.	15.	25 <sup>e</sup>
MEDIAN 50TH		.20	L.05	L.001		L.05	.004	107.	84.	50 <sup>e</sup> MEDIANE
75TH		.23	L.05	.001		L.05	.007	290.	267.	75 <sup>e</sup>
90TH		25	L.10	.003			.013	1042.	940.	90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10LC0001** LAT. **67 D 45 M 25 S** LONG. **133 D 52 M 0 S**UTM **08 547800E 7516000 N**  
NOV 30, 1972 TO/A OCT 06, 1973RENGLING RIVER AT UPSTREAM JUNCTION  
OF DEMSTER HWY RE-CHANNELIZATION.

		02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
	SUBM ID	USIE/CM			PH UNITS					
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>4(0)</b>	<b>6(0)</b>		<b>7(0)</b>	<b>6(0)</b>	<b>6(1)</b>	<b>2(0)</b>	<b>6(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>55.</b>	<b>34.3</b>		<b>6.5</b>	<b>.33</b>	<b>L.002</b>	<b>12.2</b>	<b>.43</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>100.</b>	<b>122.6</b>		<b>7.4</b>	<b>.55</b>	<b>.021</b>	<b>13.5</b>	<b>.77</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>76.</b>	<b>58.2</b>			<b>.47</b>	<b>.013*</b>	<b>12.8</b>	<b>.64</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>19.</b>	<b>32.4</b>			<b>.08</b>	<b>.007*</b>	<b>.9</b>	<b>.12</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>64.</b>	<b>41.2</b>		<b>6.6</b>	<b>.43</b>	<b>.009</b>		<b>.60</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>74.</b>	<b>46.9</b>		<b>6.9</b>	<b>.48</b>	<b>.014</b>	<b>12.8</b>	<b>.63</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>88.</b>	<b>57.4</b>		<b>7.3</b>	<b>.54</b>	<b>.020</b>		<b>.76</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HC03 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>6(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>6(0)</b>	<b>5(0)</b>	<b>7(0)</b>	<b>7(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.7</b>	<b>2.1</b>	<b>9.10</b>	<b>2.8</b>	<b>43.</b>	<b>1.1</b>	<b>7.4</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>1.3</b>	<b>6.0</b>	<b>17.6</b>	<b>19.1</b>	<b>84.</b>	<b>10.4</b>	<b>12.6</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.9</b>	<b>3.4</b>	<b>13.17</b>	<b>6.2</b>	<b>61.</b>	<b>3.9</b>	<b>9.4</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.2</b>	<b>1.3</b>	<b>3.03</b>	<b>6.4</b>	<b>16.</b>	<b>3.3</b>	<b>2.3</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.7</b>	<b>2.8</b>	<b>11.2</b>	<b>3.2</b>	<b>52.</b>	<b>1.6</b>	<b>7.5</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.8</b>	<b>3.2</b>	<b>12.80</b>	<b>3.6</b>	<b>60.</b>	<b>2.8</b>	<b>8.9</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.9</b>	<b>3.3</b>	<b>15.5</b>	<b>4.5</b>	<b>65.</b>	<b>6.0</b>	<b>12.6</b>		<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>		<b>3(3)</b>	<b>3(3)</b>	<b>7(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.002</b>	<b>.370</b>	<b>.003</b>	<b>.003</b>		<b>L.001</b>	<b>L.002</b>	<b>3.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.050</b>	<b>.40</b>	<b>.018</b>	<b>.013</b>		<b>L.001</b>	<b>L.002</b>	<b>34.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.023</b>	<b>.387</b>	<b>.010</b>	<b>.007</b>				<b>10.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.024</b>	<b>.015</b>	<b>.008</b>	<b>.005</b>				<b>11.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>4.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.018</b>	<b>.390</b>	<b>.008</b>	<b>.005</b>		<b>L.001</b>	<b>L.002</b>	<b>5.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>15.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10LC0002 LAT. 67 D 45 M 25 S LONG. 133 D 52 M 35 S

UTM 08 547400E 7516000 N  
NOV 30 1972 TO/A JUL 29 1973RENGLENG RIVER AT DOWNSTREAM JUNCTION  
OF DEMSTER HWY RE CHANNELIZATION

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH	07652L NITROGEN TOTAL DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SAMPLES(FLAGS)	0402	2(0)	4(0)	3(0)	4(0)	4(1)	1(0)	4(0)	ECHANTILLONS(IND.)
LOW		72.	36.4	6.5	.43	.00	6.2	.57	MINIMUM
HIGH		90.	73.9	7.2	.59	.018	6.2	.77	MAXIMUM
AVERAGE		81.	49.5		.51	.007*		.67	MOYENNE
STD.DEV.		13.	16.8		.09	.008*		.09	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH			38.7		.44	.001*		.60	25 <sup>e</sup>
MEDIAN 50TH		81.	43.8	7.1	.52	.005*		.67	50 <sup>e</sup> MEDIANE
75TH			60.2		.59	.013		.74	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HC03 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
SAMPLES(FLAGS)	0402	4(0)	4(0)	4(0)	2(0)	4(0)	4(0)		ECHANTILLONS(IND.)
LOW		.7	2.1	10.2	2.7	49.	1.1	7.2	MINIMUM
HIGH		1.5	46.0	19.8	6.0	66.	40.0	12.6	MAXIMUM
AVERAGE		.9	13.5	13.32	3.9	57.	11.1	9.8	MOYENNE
STD.DEV.		.4	21.7	4.40	1.4	12.	19.3	2.2	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.7	2.4	10.60	3.0		1.3	8.4	25 <sup>e</sup>
MEDIAN 50TH		.7	2.9	11.65	3.6	57.	1.6	9.7	50 <sup>e</sup> MEDIANE
75TH		1.1	24.6	16.05	4.9		20.8	11.2	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0402	1(0)	1(0)	1(1)		1(1)	1(1)	4(0)	ECHANTILLONS(IND.)
LOW		.040	.07	L.001		L.001	L.002	4.	MINIMUM
HIGH		.040	.07	L.001		L.001	L.002	36.	MAXIMUM
AVERAGE								16.	MOYENNE
STD.DEV.								14.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH								7.	25 <sup>e</sup>
MEDIAN 50TH								11.	50 <sup>e</sup> MEDIANE
75TH								25.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10LC0005** LAT. **68 D 22 M 30 S** LONG. **133 D 46 M 0 S**UTM **08 551000E 7585000 N**  
JUL 10, 1973 TO/À SEP 20, 1973MACKENZIE RIVER EAST CHANNEL,  
NORTHWEST TERRITORIES

		02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
	SUBM ID	USIE/CM			PH UNITS					
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>3(0)</b>	<b>3(0)</b>		<b>3(0)</b>	<b>3(0)</b>	<b>3(1)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>78.</b>	<b>100.9</b>		<b>7.8</b>	<b>.18</b>	<b>L.002</b>	<b>10.3</b>	<b>1.48</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>195.</b>	<b>110.5</b>		<b>7.9</b>	<b>.29</b>	<b>.038</b>	<b>15.0</b>	<b>1.72</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>148.</b>	<b>106.3</b>			<b>.24</b>	<b>.018*</b>	<b>12.2</b>	<b>1.59</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>62.</b>	<b>5.0</b>			<b>.06</b>	<b>.018*</b>	<b>2.5</b>	<b>.12</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>170.</b>	<b>107.6</b>		<b>7.8</b>	<b>.24</b>	<b>.015</b>	<b>11.2</b>	<b>1.58</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HC03 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>2(0)</b>	<b>2(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>.9</b>	<b>4.7</b>	<b>29.1</b>	<b>6.9</b>	<b>110.</b>	<b>7.0</b>	<b>21.7</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>1.0</b>	<b>5.8</b>	<b>32.0</b>	<b>7.5</b>	<b>118.</b>	<b>9.2</b>	<b>28.5</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>1.0</b>	<b>5.4</b>	<b>30.60</b>	<b>7.3</b>	<b>114.</b>	<b>8.1</b>	<b>25.1</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.0</b>	<b>.6</b>	<b>1.45</b>	<b>.4</b>	<b>4.</b>	<b>1.6</b>	<b>4.8</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>1.0</b>	<b>5.7</b>	<b>30.7</b>	<b>7.4</b>	<b>113.</b>	<b>8.1</b>	<b>25.1</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR.	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	<b>0402</b>								<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>									<b>7.</b>	<b>MINIMUM</b>
<b>HIGH</b>									<b>105.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>49.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>50.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>									<b>35.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE									<b>04L</b>	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB BASIN

STATION 00NW10LC0006 LAT. 68 D 21 M 0 S LONG. 133 D 43 M 30 S

UTM 08 552000E 7583000 N  
JUN 11 1973 TO/A SEP 20 1973MACKENZIE RIVER EAST CHANNEL  
NORTHWEST TERRITORIES

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR SECCHI DSC M	10301F PH	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SUBM ID	USIE CM			PH UNITS					
SAMPLES(FLAGS) 0402	4(0)	4(0)		4(0)	4(0)	4(0)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW	78.	90.0		7.8	.0	.0	10.3	1.41	MINIMUM
HIGH	195.	109.4		8.0	.28	.026	15.0	1.75	MAXIMUM
AVERAGE	157.	100.3			.17	.012	12.2	1.57	MOYENNE
STD.DEV.	54	10.0			.12	.013	2.1	.16	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	124	91.7		7.8	.10	.002	10.6	1.43	25 <sup>e</sup>
MEDIAN 50TH	178.	100.9		7.9	.20	.012	11.7	1.55	50 <sup>e</sup> MEDIANE
75TH	190	108.9		8.0	.24	.023	13.7	1.71	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HC03 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
SUBM ID									
SAMPLES(FLAGS) 0402	4(0)	4(0)	4(0)	4(0)	3(0)	3(0)	3(0)		ECHANTILLONS(IND.)
LOW	.9	4.3	27.1	4.2	111.	6.7	21.0		MINIMUM
HIGH	1.0	5.8	31.1	7.7	118.	8.6	28.5		MAXIMUM
AVERAGE	1.0	5.1	29.50	6.5	115.	7.7	24.9		MOYENNE
STD.DEV.	1	8	1.82	1.7	4.	.9	3.8		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.9	4.4	28.10	5.2					25 <sup>e</sup>
MEDIAN 50TH	1.0	5.0	29.90	7.0	115.	7.7	25.3		50 <sup>e</sup> MEDIANE
75TH	1.0	5.7	30.90	7.7					75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
SUBM ID									
SAMPLES(FLAGS) 0402								4(0)	ECHANTILLONS(IND.)
LOW								26.	MINIMUM
HIGH								346.	MAXIMUM
AVERAGE								131.	MOYENNE
STD.DEV.								149	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH								30	25 <sup>e</sup>
MEDIAN 50TH								77.	50 <sup>e</sup> MEDIANE
75TH								233	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10LC0008** LAT. **69 D 11 M 30 S** LONG. **134 D 14 M 30 S**UTM **08 530000E 7675000 N**  
SEP 11, 1971 TO/À JUL 26, 1973MACKENZIE RIVER EAST CHANNEL,  
NORTHWEST TERRITORIES

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SUBM ID	USIE/CM			PH UNITS	N MG/L				
<b>SAMPLES(FLAGS)</b> 0402	<b>4(0)</b>	<b>1(0)</b>		<b>4(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>275.</b>	<b>101.5</b>		<b>7.9</b>	<b>.27</b>	<b>.014</b>	<b>8.9</b>	<b>1.51</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>300.</b>	<b>101.5</b>		<b>7.9</b>	<b>.27</b>	<b>.014</b>	<b>8.9</b>	<b>1.51</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>294.</b>								<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>12.</b>								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>288.</b>			<b>7.9</b>					<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>300.</b>			<b>7.9</b>					<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>300.</b>			<b>7.9</b>					<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HCO3 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0402	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>1.0</b>	<b>6.1</b>	<b>28.7</b>	<b>7.2</b>	<b>134.</b>	<b>143.</b>	<b>40.0</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>1.0</b>	<b>6.1</b>	<b>28.7</b>	<b>7.2</b>	<b>134.</b>	<b>143.</b>	<b>40.0</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>									<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR.	
SUBM ID									
<b>SAMPLES(FLAGS)</b> 0402								<b>1(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>								<b>130.</b>	<b>MINIMUM</b>
<b>HIGH</b>								<b>130.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>									<b>MOYENNE</b>
<b>STD.DEV.</b>									<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>									<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>									<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>									<b>75<sup>e</sup></b>
<b>90TH</b>									<b>90<sup>e</sup></b>
SECONDARY CODE								04L	CODE DE SECOURS

## MACKENZIE RIVER BASIN 1960 79

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10LC0009 LAT 68 D 57 M 30 S LONG 134 D 37 M 0 S

ITEM 08 515000 7650000 N  
SEP 11 1971 TO/A JUL 26 1973MACKENZIE RIVER EAST CHANNEL  
NORTHWEST TERRITORIES

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH PH UNITS	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SAMPLES(FLAGS)	0402	8(0)	4(0)	2(0)	9(0)	4(0)	3(0)	4(0)	ECHANTILLONS(IND.)
LOW	100.	67.6	.01	7.4	.28	.004	9.4	1.41	MINIMUM
HIGH	400.	147.0	.16	8.0	1.15	.021	10.0	1.79	MAXIMUM
AVERAGE	258.	111.5	.09		.60	.014	9.7	1.58	MOYENNE
STD.DEV.	113.	35.4	.11		.38	.007	.3	.16	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	150.	83.4		7.6	.38	.009		1.46	25 <sup>e</sup>
MEDIAN 50TH	300.	115.7	.09	7.8	.49	.015	9.6	1.57	50 <sup>e</sup> MEDIANE
75TH	330.	139.6		7.9	.82	.019		1.71	75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HC03 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
SAMPLES(FLAGS)	0402	4(0)	4(0)	4(0)	4(0)	3(0)	3(0)		ECHANTILLONS(IND.)
LOW	.9	4.6	26.6	.3	101.	2.1	23.2		MINIMUM
HIGH	1.3	11.2	39.9	11.5	142.	383.	57.2		MAXIMUM
AVERAGE	1.1	6.6	33.22	6.9	125.	133.3	39.4		MOYENNE
STD.DEV.	.2	3.1	6.74	4.8	17.	216.3	17.1		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1.0	4.9	27.45	3.6	115.				25 <sup>e</sup>
MEDIAN 50TH	1.0	5.3	33.20	8.0	129.	14.9	37.8		50 <sup>e</sup> MEDIANE
75TH	1.2	8.3	39.00	10.2	136.				75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0402	3(3)	3(1)	3(0)	3(1)	3(3)	3(2)	4(1)	ECHANTILLONS(IND.)
LOW	L.001	L.05	.004	L.001		L.001	L.001	L1.	MINIMUM
HIGH	L.001	.22	.009	.009		L.001	.001	535.	MAXIMUM
AVERAGE		.107*	.007	.004*			.001*	253.*	MOYENNE
STD.DEV.		.098*	.003	.004*			.000*	244.*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH								53.*	25 <sup>e</sup>
MEDIAN 50TH	L.001	.05	.008	.002		L.001	L.001	239.	50 <sup>e</sup> MEDIANE
75TH								454.	75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

04L CODE DE SECOURS



## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION 00NW10LC0010 LAT. 68 D 38 M 0 S LONG. 134 D 4 M 0 S

UTM 08 538000E 7613000 N  
SEP 03, 1971 TO/À JUN 09, 1973

MACKENZIE RIVER EAST CHANNEL,  
NORTHWEST TERRITORIES

		02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH PH UNITS	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SAMPLES(FLAGS)	0402	11(0)	9(0)	2(0)	14(0)	9(0)	9(0)	7(0)	9(0)	ECHANTILLONS(IND.)
LOW		100.	94.5	.02	7.6	.0	.0	5.7	.70	MINIMUM
HIGH		350.	151.3	.15	8.1	.49	.064	13.7	2.01	MAXIMUM
AVERAGE		218.	129.4	.09		.29	.019	11.4	1.59	MOYENNE
STD.DEV.		91.	20.9	.09		.13	.018	2.8	.43	ECART-TYPE
PERCNT:10TH		100.			7.6					10 <sup>e</sup> PERCNT
25TH		100.	120.4		7.7	.25	.014	10.0	1.37	25 <sup>e</sup>
MEDIAN 50TH		250.	139.6	.09	7.8	.29	.016	12.6	1.81	50 <sup>e</sup> MEDIANE
75TH		290.	141.8		8.1	.33	.018	13.6	1.87	75 <sup>e</sup>
90TH		300.			8.1					90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HC03 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
SAMPLES(FLAGS)	0402	9(0)	9(0)	9(0)	9(0)	9(0)	8(0)	8(0)		ECHANTILLONS(IND.)
LOW		1.0	4.6	27.0	6.2	102.	4.4	22.7		MINIMUM
HIGH		1.6	11.3	41.3	11.7	150.	18.1	38.7		MAXIMUM
AVERAGE		1.3	8.5	35.70	9.8	130.	11.6	31.6		MOYENNE
STD.DEV.		.2	2.7	5.17	2.0	15.	5.1	5.5		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		1.1	5.1	33.6	8.9	128.	6.5	27.7		25 <sup>e</sup>
MEDIAN 50TH		1.2	9.8	38.1	10.8	131.	13.3	32.4		50 <sup>e</sup> MEDIANE
75TH		1.3	10.3	38.8	10.9	140.	15.3	35.4		75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0402	5(3)	5(1)	4(0)	5(1)		4(4)	4(3)	9(1)	ECHANTILLONS(IND.)
LOW		L.001	L.05	.004	L.001		L.001	L.001	L1.	MINIMUM
HIGH		.010	.11	.023	.003		L.001	.002	655.	MAXIMUM
AVERAGE		.005*	.074*	.012	.002*			.001*	99.*	MOYENNE
STD.DEV.		.005*	.026*	.008	.001*			.001*	214.*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		L.001	.05	.006	.001		L.001	L.001	2.	25 <sup>e</sup>
MEDIAN 50TH		L.001	.07	.010	.002		L.001	L.001	3.	50 <sup>e</sup> MEDIANE
75TH		.010	.09	.018	.002		L.001	.002*	105.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE									04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-79

MACKENZIE RIVER SUB BASIN

STATION 00NW10LC0011 LAT. 68 D 29M 0 S LONG. 133 D 49M 30 S

UTM 08 548000E 7597000 N  
AUG 24 1971 TO/A SEP 28 1973

MACKENZIE RIVER EAST CHANNEL  
NORTHWEST TERRITORIES

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3	02075S TURBIDITY LIGHT PENETR. SECCHI DSC	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED	08101F OXYGEN DISSOLVED	14201L SILICON SOL. ORTHO SILICATE	
SUBM ID	USIF CM	MG/L	M	PH UNITS	N MG/L	P MG/L	DO O2	SI MG/L	
SAMPLES(FLAGS) 0402	14(0)	16(0)	5(0)	20(0)	16(0)	16(1)	15(0)	16(0)	ECHANTILLONS(IND.)
LOW	130.	86.2	.02	7.5	.0	.0	4.9	.19	MINIMUM
HIGH	350.	183.1	.30	8.1	.46	.049	15.6	2.00	MAXIMUM
AVERAGE	253.	129.0	.17		.28	.017*	12.0	1.30	MOYENNE
STD.DEV.	65.	26.1	.13		.10	.011*	2.4	.68	ECART-TYPE
PERCNT:10TH	160.	91.8		7.6	.20	L.002	9.8	.19	10 <sup>e</sup> PERCNT
25TH	195.	109.0	.05	7.7	.25	.012	11.4	.77	25 <sup>e</sup>
MEDIAN 50TH	280.	132.0	.22	7.8	.28	.016	12.4	1.58	50 <sup>e</sup> MEDIANE
75TH	300.	138.7	.25	7.9	.32	.023	13.2	1.74	75 <sup>e</sup>
90TH	320.	162.4		8.1	.41	.025	13.5	1.93	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19105L POTASSIUM DISSOLVED	11105L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06202F BICARBONT. LAB CALC.	17207L CHLORIDE DISSOLVED	16305L SULPHATE DISSOLVED	13105L ALUMINUM DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	HC03 MG/L	CL MG/L	SO4 MG/L	AL MG/L	
SAMPLES(FLAGS) 0402	16(0)	16(0)	16(0)	16(0)	16(0)	14(0)	14(0)		ECHANTILLONS(IND.)
LOW	1.0	4.3	24.1	6.0	94.	3.8	20.3		MINIMUM
HIGH	1.9	44.6	50.4	13.9	180.	21.5	50.5		MAXIMUM
AVERAGE	1.2	10.2	35.72	9.7	129.	11.5	33.0		MOYENNE
STD.DEV.	.3	9.6	6.69	2.3	19.	5.6	9.9		ECART-TYPE
PERCNT:10TH	1.0	4.4	26.9	6.3	106.	4.4	22.1		10 <sup>e</sup> PERCNT
25TH	1.0	5.3	30.90	7.7	121.	6.6	27.8		25 <sup>e</sup>
MEDIAN 50TH	1.1	8.3	36.35	10.0	123.	11.9	30.0		50 <sup>e</sup> MEDIANE
75TH	1.4	10.8	38.00	10.7	136.	16.5	38.4		75 <sup>e</sup>
90TH	1.6	13.1	44.1	12.7	146.	18.0	50.5		90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	25105L MANGANESE DISSOLVED	26104L IRON DISSOLVED	29107L COPPER DISSOLVED	30107L ZINC DISSOLVED	33105L ARSENIC DISSOLVED	48103L CADMIUM DISSOLVED	82104L LEAD DISSOLVED	10401L RESIDUE NONFILTR.	
SUBM ID	MN MG/L	FE MG/L	CU MG/L	ZN MG/L	AS MG/L	CD MG/L	PB MG/L	MG/L	
SAMPLES(FLAGS) 0402	12(6)	12(2)	11(1)	12(2)		12(11)	12(10)	16(1)	ECHANTILLONS(IND.)
LOW	L.001	.023	L.002	L.001		L.001	L.001	L1.	MINIMUM
HIGH	.070	4.42	.028	.020		.001	.002	729.	MAXIMUM
AVERAGE	.014*	.480*	.007*	.007*		.001*	.002*	117.*	MOYENNE
STD.DEV.	.022*	1.249*	.007*	.007*		.000*	.001*	210.*	ECART-TYPE
PERCNT:10TH	L.001	L.05	.002	L.001		L.001	L.001	1.	10 <sup>e</sup> PERCNT
25TH	L.001	.050*	.003	.003		L.001	L.001	2.	25 <sup>e</sup>
MEDIAN 50TH	.005*	.060	.005	.004		L.001	L.002	40.	50 <sup>e</sup> MEDIANE
75TH	.011	.215	.006	.011		L.001	L.002	129.	75 <sup>e</sup>
90TH	.050	.50	.010	.020		L.001	L.002	525.	90 <sup>e</sup>
SECONDARY CODE	07L	07L						04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10LC0012** LAT. **68 D 18 M 0 S** LONG. **133 D 46 M 30 S**UTM **08 550000E 7576000 N**  
MAR 14, 1972 TO/À SEP 24, 1973MACKENZIE RIVER EAST CHANNEL,  
NORTHWEST TERRITORIES

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3	02075S TURBIDITY LIGHT PENETR. SECCHI DSC	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED	08101F OXYGEN DISSOLVED DO	14201L SILICON SOL. ORTHO SILICATE	
SUBM ID	USIE/CM	MG/L	M	PH UNITS	N MG/L	P MG/L	O2 MG/L	SI MG/L	
<b>SAMPLES(FLAGS)</b> 0402	15(0)	14(0)	5(0)	17(0)	15(0)	15(0)	15(0)	15(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>78.</b>	<b>86.2</b>	<b>.04</b>	<b>7.1</b>	<b>.0</b>	<b>.0</b>	<b>5.1</b>	<b>.19</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>500.</b>	<b>152.5</b>	<b>.27</b>	<b>8.0</b>	<b>.54</b>	<b>.046</b>	<b>14.7</b>	<b>1.88</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>227.</b>	<b>120.6</b>	<b>.18</b>		<b>.29</b>	<b>.017</b>	<b>11.2</b>	<b>1.49</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>100.</b>	<b>20.0</b>	<b>.12</b>		<b>.12</b>	<b>.011</b>	<b>2.8</b>	<b>.42</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>150.</b>	<b>89.6</b>		<b>7.5</b>	<b>.18</b>	<b>.008</b>	<b>5.2</b>	<b>1.13</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>150.</b>	<b>109.8</b>	<b>.05</b>	<b>7.7</b>	<b>.23</b>	<b>.010</b>	<b>10.4</b>	<b>1.34</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>195.</b>	<b>120.6</b>	<b>.27</b>	<b>7.8</b>	<b>.27</b>	<b>.015</b>	<b>12.0</b>	<b>1.58</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>280.</b>	<b>138.4</b>	<b>.27</b>	<b>7.8</b>	<b>.34</b>	<b>.021</b>	<b>12.8</b>	<b>1.76</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>300.</b>	<b>142.8</b>		<b>8.0</b>	<b>.42</b>	<b>.030</b>	<b>13.7</b>	<b>1.83</b>	<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

	19105L POTASSIUM DISSOLVED	11105L SODIUM DISSOLVED	20103L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06202F BICARBONT. LAB CALC.	17207L CHLORIDE DISSOLVED	16305L SULPHATE DISSOLVED	13105L ALUMINUM DISSOLVED	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	HC03 MG/L	CL MG/L	SO4 MG/L	AL MG/L	
<b>SAMPLES(FLAGS)</b> 0402	14(0)	14(0)	14(0)	14(0)	15(0)	14(0)	14(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>.9</b>	<b>4.3</b>	<b>24.1</b>	<b>5.9</b>	<b>96.</b>	<b>3.2</b>	<b>13.7</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>1.7</b>	<b>10.7</b>	<b>42.1</b>	<b>11.5</b>	<b>156.</b>	<b>16.2</b>	<b>37.9</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>1.2</b>	<b>7.7</b>	<b>33.52</b>	<b>9.0</b>	<b>121.</b>	<b>10.4</b>	<b>28.5</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.2</b>	<b>2.4</b>	<b>5.01</b>	<b>1.8</b>	<b>15.</b>	<b>4.3</b>	<b>6.0</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>.9</b>	<b>4.4</b>	<b>26.2</b>	<b>6.3</b>	<b>98.</b>	<b>5.7</b>	<b>22.1</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>1.0</b>	<b>5.6</b>	<b>31.2</b>	<b>7.6</b>	<b>117.</b>	<b>6.5</b>	<b>26.7</b>		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>1.1</b>	<b>7.8</b>	<b>33.25</b>	<b>9.1</b>	<b>118.</b>	<b>9.7</b>	<b>29.3</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>1.3</b>	<b>10.2</b>	<b>37.8</b>	<b>10.7</b>	<b>132.</b>	<b>14.3</b>	<b>33.0</b>		<b>75<sup>e</sup></b>
<b>90TH</b>	<b>1.5</b>	<b>10.5</b>	<b>38.9</b>	<b>11.1</b>	<b>134.</b>	<b>15.3</b>	<b>33.8</b>		<b>90<sup>e</sup></b>

SECONDARY CODE

CODE DE SECOURS

	25105L MANGANESE DISSOLVED	26104L IRON DISSOLVED	29107L COPPER DISSOLVED	30107L ZINC DISSOLVED	33105L ARSENIC DISSOLVED	48103L CADMIUM DISSOLVED	82104L LEAD DISSOLVED	10401L RESIDUE NONFILTR.	
SUBM ID	MN MG/L	FE MG/L	CU MG/L	ZN MG/L	AS MG/L	CD MG/L	PB MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0402	11(4)	12(3)	9(0)	7(1)		9(8)	9(7)	15(1)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>L.001</b>	<b>.040</b>	<b>.003</b>	<b>L.001</b>		<b>L.001</b>	<b>L.001</b>	<b>L.1</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>.020</b>	<b>.23</b>	<b>.010</b>	<b>.006</b>		<b>.001</b>	<b>L.004</b>	<b>447.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>	<b>.007*</b>	<b>.081*</b>	<b>.005</b>	<b>.003*</b>		<b>.001*</b>	<b>.002*</b>	<b>86.*</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>	<b>.006*</b>	<b>.056*</b>	<b>.002</b>	<b>.002*</b>		<b>.000*</b>	<b>.001*</b>	<b>138.*</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>	<b>L.001</b>	<b>.048</b>						<b>1.</b>	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>	<b>L.001</b>	<b>L.050</b>	<b>.003</b>	<b>.001</b>		<b>L.001</b>	<b>L.001</b>	<b>3.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>	<b>.010</b>	<b>.050</b>	<b>.004</b>	<b>.003</b>		<b>L.001</b>	<b>.001</b>	<b>35.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>	<b>.010</b>	<b>.110</b>	<b>.005</b>	<b>.005</b>		<b>L.001</b>	<b>L.202</b>	<b>108.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>	<b>.011</b>	<b>.13</b>						<b>362.</b>	<b>90<sup>e</sup></b>

SECONDARY CODE

04L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10LD0001 LAT. 66 D 15 M 30 S LONG. 128 D 38 M 0 S

UTM 09 516000E 7348000N  
JUN 19. 1960 TO/A JUN 01 1971

MACKENZIE RIVER AT FORT GOOD HOPE  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE/CM	MG/L	CACO3 MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0001	13(0)	8(0)	4(0)	13(0)	13(0)	13(0)	13(0)	8(0)	ECHANTILLONS(IND.)
LOW	0056	201.	109.	92.6	20.	4.0	7.6	71.5	-.5	MINIMUM
HIGH		265.	150.	126.	200.	680.	8.2	96.9	.2	MAXIMUM
AVERAGE		238.	136.	109.6	53.	138.6		86.3		MOYENNE
STD.DEV.		23.	12.	14.2	46.	193.5		6.2		ECART-TYPE
PERCNT:10TH		210.			30.	4.0	7.6	78.2		10 <sup>th</sup> PERCNT
25TH		216.	134.	98.8	30.	41.0	7.8	85.9	-.4	25 <sup>th</sup>
MEDIAN 50TH		241.	138.	110.0	40.	58.0	7.8	86.7	-.2	50 <sup>th</sup> MEDIANE
75TH		260.	144.	120.5	55.	130.	8.0	88.7	-.1	75 <sup>th</sup>
90TH		265.			70.	370.	8.1	92.7		90 <sup>th</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L	
SAMPLES(FLAGS)	0001	13(0)	13(0)	13(0)	4(0)	13(0)	13(0)	13(0)	13(0)	ECHANTILLONS(IND.)
LOW	0056	.7	4.0	28.4	8.8	0.	87.	5.3	20.4	MINIMUM
HIGH		1.2	9.8	35.7	9.8	0.	118.	10.4	31.1	MAXIMUM
AVERAGE		.9	6.2	31.58	9.2	0.	105.	7.5	26.3	MOYENNE
STD.DEV.		.1	1.6	2.33	.5	0.	8.	1.7	4.0	ECART-TYPE
PERCNT:10TH		.8	4.6	29.1		0.	95.	5.4	21.1	10 <sup>th</sup> PERCNT
25TH		.9	5.2	29.7	8.8	0.	105.	5.9	21.8	25 <sup>th</sup>
MEDIAN 50TH		.9	5.9	31.1	9.1	0.	106.	7.5	28.1	50 <sup>th</sup> MEDIANE
75TH		1.0	6.7	33.5	9.5	0.	108.	8.5	30.1	75 <sup>th</sup>
90TH		1.1	8.1	34.4		0.	113.	10.2	30.6	90 <sup>th</sup>
SECONDARY CODE										CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS ORTHOPHOSPHATE	15313F PHOSPHORUS TOTAL INORG. PO4	15363L PHOSPHORUS DISSOLVED INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	
SAMPLES(FLAGS)	0001	1(1)	4(0)		4(1)	3(1)	3(1)	1(0)	13(0)	ECHANTILLONS(IND.)
LOW	0056	L.5	.018		L.002	L.002	L.002	.029	2.7	MINIMUM
HIGH		L.5	.160		.010	.007	.007	.029	9.00	MAXIMUM
AVERAGE			.067		.005*	.005*	.004*		3.98	MOYENNE
STD.DEV.			.063		.004*	.003*	.003*		1.56	ECART-TYPE
PERCNT:10TH									3.3	10 <sup>th</sup> PERCNT
25TH			.032		.002*				3.40	25 <sup>th</sup>
MEDIAN 50TH			.045		.003	.007	.003		3.50	50 <sup>th</sup> MEDIANE
75TH			.103		.007				3.80	75 <sup>th</sup>
90TH									4.40	90 <sup>th</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10LD0001** LAT. **66 D 15 M 30 S** LONG. **128 D 38 M 0 S**UTM **09 516000E 7348000 N**  
JUN 19, 1960 TO/A JUN 01, 1971MACKENZIE RIVER AT FORT GOOD HOPE,  
NORTHWEST TERRITORIES

		06001L CARBON TOTAL ORGANIC	08102S OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBL.	05105L BORON DISSOLVED	23301P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	C MG/L	O2 MG/L	F MG/L	LI MG/L	B MG/L	V MG/L	CR MG/L	CO MG/L	
SAMPLES(FLAGS)	0001	2(0)		12(6)						ECHANTILLONS(IND.)
LOW	0056	7.0		.07						MINIMUM
HIGH		13.0		.18						MAXIMUM
AVERAGE		10.0		.12*						MOYENNE
STD.DEV.		4.2		.04*						ECART-TYPE
PERCNT:10TH				.09						10 <sup>e</sup> PERCNT
25TH				L.10						25 <sup>e</sup>
MEDIAN 50TH		10.0		L.10						50 <sup>e</sup> MEDIANE
75TH				.17						75 <sup>e</sup>
90TH				.18						90 <sup>e</sup>
SECONDARY CODE				02L 04L						CODE DE SECOURS

		25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
	SUBM ID	MN MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0001	11(9)	9(8)	11(2)			11(11)	12(10)		ECHANTILLONS(IND.)
LOW	0056	L.010	L.01	L.01			L.01	L.01		MINIMUM
HIGH		.130	.05	.280			L.01	.08		MAXIMUM
AVERAGE		.021*	.01*	.073*				.019*		MOYENNE
STD.DEV.		.036*	.01*	.087*				.022*		ECART-TYPE
PERCNT:10TH		L.010		L.01			L.01	L.01		10 <sup>e</sup> PERCNT
25TH		L.010	L.01	.01			L.01	L.010		25 <sup>e</sup>
MEDIAN 50TH		L.010	L.01	.040			L.01	L.010		50 <sup>e</sup> MEDIANE
75TH		L.010	L.01	.10			L.01	L.010		75 <sup>e</sup>
90TH		.01		.19			L.01	.05		90 <sup>e</sup>
SECONDARY CODE		04L	03L 04L	01L			01L 06L	01L 04L		CODE DE SECOURS

		38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	BA MG/L	HG UG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001						3(3)	4(0)	4(0)	ECHANTILLONS(IND.)
LOW	0056						L.01	29.	25.	MINIMUM
HIGH							L.01	248.	236.	MAXIMUM
AVERAGE								113.	105.	MOYENNE
STD.DEV.								105.	100.	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH								30.	26.	25 <sup>e</sup>
MEDIAN 50TH							L.01	88.	79.	50 <sup>e</sup> MEDIANE
75TH								197.	183.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE							01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10LD0002 LAT 66° 18' N LONG 128° 34' W

LTM 09 520000 7354000 N

AUG 07, 1969 TO/A OCT 31 1974

HARE INDIAN RIVER NEAR THE MOUTH  
NORTHWEST TERRITORIES

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS
SAMPLES(FLAGS)	0124	17(0)	20(0)	24(0)	25(2)	24(0)	18(0)	24(0)	17(0)
LOW	0056	223.	120.	105.	L5.	.6	7.6	36.	-3
HIGH		1575.	1137.	838.	70.	22.0	8.3	172.	1.2
AVERAGE		765.	512.	417.3	23.*	4.5		112.6	
STD.DEV.		387.	283.	217.1	22.*	6.4		34.4	
PERCNT:10TH		276.	166.	136.	5.	.8	7.8	70.4	-2
25TH		515.	250.	210.0	5.	1.0	7.9	89.9	.3
MEDIAN 50TH		704.	489.	417.5	15.	2.2	8.0	116.5	.8
75TH		885.	642.	516.0	30.	3.7	8.2	136.0	1.0
90TH		1435.	909.	754.	70.	19.0	8.2	155.	1.2
SECONDARY CODE				03F	11F	73F		01F	

ECHANTILLONS(IND.)  
MINIMUM  
MAXIMUM  
MOYENNE  
ECART-TYPE10<sup>th</sup> PERCNT  
25<sup>th</sup>  
50<sup>th</sup> MEDIANE  
75<sup>th</sup>  
90<sup>th</sup>

CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12102L MAGNESIUM DISSOLVED	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17203L CHLORIDE DISSOLVED	16303L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG	CO3 MG/L	HCO3 MG/L	CL MG/L	SO4 MG/L
SAMPLES(FLAGS)	0124	24(0)	24(0)	24(0)		20(0)	20(0)	24(0)	24(0)
LOW		.5	1.7	33.8		0.	44.	1.5	29.0
HIGH		3.1	11.0	285.		0.	210.	14.0	753.
AVERAGE		1.1	5.4	140.64		0.	133.	5.8	294.9
STD.DEV.		.5	2.4	77.56		0.	42.	2.6	195.9
PERCNT:10TH		.6	2.3	42.0		0.	81.	2.7	56.0
25TH		.8	4.0	68.50		0.	100.	4.5	113.0
MEDIAN 50TH		1.0	5.3	141.00		0.	138.	5.5	296.0
75TH		1.2	6.5	197.50		0.	162.	6.7	390.0
90TH		1.5	8.1	264.		0.	187.	7.4	560.
SECONDARY CODE					01F			06L	04L 06L

ECHANTILLONS(IND.)  
MINIMUM  
MAXIMUM  
MOYENNE  
ECART-TYPE10<sup>th</sup> PERCNT  
25<sup>th</sup>  
50<sup>th</sup> MEDIANE  
75<sup>th</sup>  
90<sup>th</sup>

CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL	07105L NITROGEN DISSOLVED NO3 & NO2	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313F PHOSPHORUS TOTAL INORG. PO4	15363L PHOSPHORUS TOTAL INORG. PO4	15413L PHOSPHORUS TOTAL	14102L SILICA REACTIVE	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	SiO2 MG/L	
SAMPLES(FLAGS)	0124	20(11)	23(8)	3(2)	21(17)	12(6)	21(13)	22(7)	24(0)
LOW	0056	.3	L.001	L.003	L.002	L.003	L.001	L.003	1.4
HIGH		.8	.510	.003	.006	.014	.008	.120	8.5
AVERAGE		.5*	.056*	.003*	.003*	.005*	.003*	.015*	3.95
STD.DEV.		.1*	.109*	.000*	.001*	.003*	.002*	.028*	1.56
PERCNT:10TH		.4	L.001		L.002	L.003	L.001	.003	2.4
25TH		L.5	L.005		L.002	L.003	L.001	L.005	2.85
MEDIAN 50TH		L.5	.020	L.003	L.002	.003*	L.003	.006	3.75
75TH		.5	.050		L.003	.005	.003	.008	4.70
90TH		.7	.140		.004	.009	.005	.026	5.6
SECONDARY CODE		02L	06L 06F		56L 55F	13L	63F 56L	13F 06L	

ECHANTILLONS(IND.)  
MINIMUM  
MAXIMUM  
MOYENNE  
ECART-TYPE10<sup>th</sup> PERCNT  
25<sup>th</sup>  
50<sup>th</sup> MEDIANE  
75<sup>th</sup>  
90<sup>th</sup>

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

MACKENZIE RIVER SUB-BASIN

STATION **00NW10LD0002** LAT. **66 D 18 M**

LONG. **128 D 34 M**

UTM **09 520000 E 7354000 N**  
AUG 07, 1969 TO/A OCT 31, 1974

HARE INDIAN RIVER NEAR THE MOUTH,  
NORTHWEST TERRITORIES

		06001L CARBON TOTAL ORGANIC	08102S OXYGEN DISSOLVED DO	09105L FLUORIDE DISSOLVED	03301P LITHIUM EXTRBL.	05105L BORON DISSOLVED	23301P VANADIUM EXTRBL.	24302P CHROMIUM EXTRBL.	27302P COBALT EXTRBL.	
	SUBM ID	C MG/L	O2 MG/L	F MG/L	LI MG/L	B MG/L	V MG/L	CR MG/L	CO MG/L	
SAMPLES(FLAGS)	0124	25(0)	2(0)	24(1)	23(7)	19(1)	22(22)	23(21)	23(12)	ECHANTILLONS(IND.)
LOW	0056	3.0	11.1	L.05	L.005	L.02	L.04	L.010	L.001	MINIMUM
HIGH		35.0	13.2	.58	.015	.40	L.05	.016	.004	MAXIMUM
AVERAGE		9.9	12.2	.23*	.007*	.09*		.011*	.002*	MOYENNE
STD.DEV.		6.7	1.5	.15*	.003*	.08*		.002*	.001*	ECART-TYPE
PERCNT:10TH		5.0		.07	L.005	.05	L.05	L.010	L.001	10 <sup>e</sup> PERCNT
25TH		6.		.11	L.005	.06	L.05	L.010	L.001	25 <sup>e</sup>
MEDIAN 50TH		9.0	12.1	.22	.006	.07	L.05	L.010	.001	50 <sup>e</sup> MEDIANE
75TH		12.0		.33	.010	.10	L.05	L.010	.002	75 <sup>e</sup>
90TH		17.0		.40	.012	.13	L.05	L.015	.002	90 <sup>e</sup>
SECONDARY CODE						02L				CODE DE SECOURS

		25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	26102L IRON DISSOLVED	26304P IRON EXTRBL.	28302P NICKEL EXTRBL.	29305P COPPER EXTRBL.	30305P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	
	SUBM ID	MN MG/L	MN MG/L	FE MG/L	FE MG/L	NI MG/L	CU MG/L	ZN MG/L	AS MG/L	
SAMPLES(FLAGS)	0124		24(5)		24(0)	23(5)	24(12)	24(9)	17(10)	ECHANTILLONS(IND.)
LOW			.00		.05	L.001	L.001	L.001	L.0005	MINIMUM
HIGH			2.40		2.50	.007	.005	.062	.010	MAXIMUM
AVERAGE			.14*		.370	.004*	.001*	.008*	.0044*	MOYENNE
STD.DEV.			.49*		.549	.002*	.001*	.012*	.0025*	ECART-TYPE
PERCNT:10TH			L.01		.08	L.001	L.001	L.001	L.0005	10 <sup>e</sup> PERCNT
25TH			.01*		.100	.001	L.001	.001	L.005	25 <sup>e</sup>
MEDIAN 50TH			.02		.150	.003	.001*	.004	L.005	50 <sup>e</sup> MEDIANE
75TH			.03		.295	.006	.002	L.010	.005	75 <sup>e</sup>
90TH			.06		1.00	.007	.002	.012	.006	90 <sup>e</sup>
SECONDARY CODE								04P	04L	CODE DE SECOURS

		38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	80311P MERCURY EXTRBL.	82302P LEAD EXTRBL.	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	SR MG/L	MO MG/L	CD MG/L	BA MG/L	HG UG/L	PB MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	22(0)	22(22)	23(13)		7(4)	25(17)	5(0)	5(2)	ECHANTILLONS(IND.)
LOW	0056	.18	L.01	L.001		L.05	L.001	4.	L.1.	MINIMUM
HIGH		3.30	L.10	.003		.15	.027	28.	20.	MAXIMUM
AVERAGE		1.34		.001*		.06*	.004*	13.	7.*	MOYENNE
STD.DEV.		.87		.001*		.04*	.006*	10.	8.*	ECART-TYPE
PERCNT:10TH		.30	L.05	L.001			L.001			10 <sup>e</sup> PERCNT
25TH		.60	L.05	L.001		L.05	L.001	4.	L.1.	25 <sup>e</sup>
MEDIAN 50TH		1.30	L.05	L.001		L.05	L.001	13.	5.	50 <sup>e</sup> MEDIANE
75TH		1.72	L.05	.001		.05	.004	15.	9.	75 <sup>e</sup>
90TH		2.65	L.08	.002			.010			90 <sup>e</sup>
SECONDARY CODE							01L			CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

LAT. 67° 13' N LONG. 134° 56' W

STATION 00NW10MC0001  
JUN 08 1960 TO/A OCT 04 1979PEEL RIVER ABOVE FORT MCPHERSON  
NORTHWEST TERRITORIES

	02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE CM								
SAMPLES(FLAGS)	0001	20(0)	18(0)	11(0)	19(0)	20(0)	18(0)	18(0)	ECHANTILLONS(IND.)
LOW	0440	185.	80.	87.2	5.	7.6	66.4	-.4	MINIMUM
HIGH		378.	205.	172.	100.	8.4	127.	.7	MAXIMUM
AVERAGE		285.	153.	143.4	30.	143.8	100.0		MOYENNE
STD.DEV.		47.	29.	23.0	25.	255.4	16.3		ECART-TYPE
PERCNT:10TH		227.	110.	123.	5.	9.6	76.3	-.4	10 <sup>e</sup> PERCNT
25TH		251.	140.	140.	10.	18.0	89.0	-.1	25 <sup>e</sup>
MEDIAN 50TH		287.	157.	143.	25.	51.5	8.0	100.0	50 <sup>e</sup> MEDIANE
75TH		316.	169.	162.	45.	120.0	8.3	112.	75 <sup>e</sup>
90TH		345.	194.	162.	60.	515.0	8.3	122.	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.) MG	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0001	32(0)	32(0)	34(0)	11(0)	20(0)	20(0)	34(0)	ECHANTILLONS(IND.)
LOW	0402	.4	1.5	24.7	5.4	0.	81.	1.0	MINIMUM
HIGH	0440	1.0	91.1	58.5	13.4	1.	155.	6.1	MAXIMUM
AVERAGE		.6	6.4	38.74	10.4	0.	122.	2.2	MOYENNE
STD.DEV.		.2	15.6	7.96	2.3	0.	19.	1.2	ECART-TYPE
PERCNT:10TH		.4	2.0	26.5	6.8	0.	96.	1.2	10 <sup>e</sup> PERCNT
25TH		.5	2.7	33.4	10.4	0.	111.	1.5	25 <sup>e</sup>
MEDIAN 50TH		.6	3.3	37.80	10.8	0.	122.	1.9	50 <sup>e</sup> MEDIANE
75TH		.8	4.3	42.1	11.3	0.	137.	2.5	75 <sup>e</sup>
90TH		.9	5.1	49.3	12.8	0.	146.	3.6	90 <sup>e</sup>
SECONDARY CODE	05L 01L	05L 01L	03L 02L				06L 07L 01L	06L	CODE DE SECOURS

	07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07307L NITROGEN DISSOLVED NITRATE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07652L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	14102L SILICA REACTIVE SiO2 MG/L	14201L SILICON SOL. ORTHO SILICATE Si MG/L	
SUBM ID									
SAMPLES(FLAGS)	0001	11(0)	7(0)	12(8)	16(0)	2(0)	18(0)	14(0)	ECHANTILLONS(IND.)
LOW	0402	.041	.023	L.1	.08	.16	1.3	.19	MINIMUM
HIGH	0440	.440	.181	.2	.67	.23	5.80	2.19	MAXIMUM
AVERAGE		.119	.087	.1*	.27	.195	3.05	1.28	MOYENNE
STD.DEV.		.114	.071	.0*	.18	.049	.88	.56	ECART-TYPE
PERCNT:10TH		.054		L.1	.14		1.8	.48	10 <sup>e</sup> PERCNT
25TH		.057	.023	L.1	.17		2.8	.95	25 <sup>e</sup>
MEDIAN 50TH		.080	.045	L.1	.20	.195	3.00	1.40	50 <sup>e</sup> MEDIANE
75TH		.130	.181	.2	.29		3.3	1.71	75 <sup>e</sup>
90TH		.181		.2	.65		3.5	1.84	90 <sup>e</sup>
SECONDARY CODE					51L		01L 05L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10MC0001** LAT. **67 D 13 M 15 S** LONG. **134 D 56 M 45 S**UTM **08 502400E 7455800 N**  
SEP 30, 1969 TO/A OCT 04, 1979PEEL RIVER ABOVE FORT MCPHERSON,  
NORTHWEST TERRITORIES

	SUBM ID	15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313F PHOSPHORUS TOTAL INORG. PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15403L PHOSPHATE TOTAL	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08101F OXYGEN DISSOLVED DO	
		P MG/L	P MG/L	P MG/L	P MG/L	PO4 MG/L	C MG/L	C MG/L	O2 MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0001</b>	<b>16(1)</b>	<b>8(4)</b>	<b>5(3)</b>		<b>2(0)</b>	<b>5(0)</b>	<b>5(0)</b>	<b>7(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0440</b>	<b>L.002</b>	<b>L.002</b>	<b>L.002</b>		<b>.98</b>	<b>3.0</b>	<b>17.0</b>	<b>5.0</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0402</b>	<b>.08</b>	<b>.010</b>	<b>.007</b>		<b>1.0</b>	<b>16.0</b>	<b>28.0</b>	<b>13.4</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.021*</b>	<b>.005*</b>	<b>.004*</b>		<b>.99</b>	<b>10.4</b>	<b>20.4</b>	<b>10.1</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.019*</b>	<b>.004*</b>	<b>.003*</b>		<b>.01</b>	<b>5.6</b>	<b>4.7</b>	<b>2.6</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		<b>.005</b>								<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>.010</b>	<b>L.002</b>	<b>L.002</b>			<b>6.0</b>	<b>17.0</b>	<b>9.2</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.013</b>	<b>.004*</b>	<b>L.002</b>		<b>.99</b>	<b>13.0</b>	<b>18.0</b>	<b>10.7</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.030</b>	<b>.009</b>	<b>.007</b>			<b>14.0</b>	<b>22.0</b>	<b>11.6</b>	<b>75<sup>e</sup></b>
<b>90TH</b>		<b>.04</b>								<b>90<sup>e</sup></b>
SECONDARY CODE		01L	57L	14L						CODE DE SECOURS

	SUBM ID	05105L BORON DISSOLVED	03301P LITHIUM EXTRBLE.	23301P VANADIUM EXTRBLE.	24302P CHROMIUM EXTRBLE.	25101L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26102L IRON DISSOLVED	26304P IRON EXTRBLE.	
		B MG/L	LI MG/L	V MG/L	CR MG/L	MN MG/L	MN MG/L	FE MG/L	FE MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0001</b>	<b>2(0)</b>		<b>2(1)</b>		<b>28(22)</b>	<b>13(10)</b>	<b>30(5)</b>	<b>9(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0402</b>	<b>.05</b>		<b>L.001</b>		<b>L.001</b>	<b>L.01</b>	<b>L.001</b>	<b>.43</b>	<b>MINIMUM</b>
<b>HIGH</b>	<b>0440</b>	<b>.08</b>		<b>.004</b>		<b>.020</b>	<b>.20</b>	<b>.39</b>	<b>12.0</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.07</b>		<b>.0025*</b>		<b>.008*</b>	<b>.033*</b>	<b>.080*</b>	<b>3.389</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.02</b>		<b>.0021*</b>		<b>.005*</b>	<b>.055*</b>	<b>.085*</b>	<b>3.688</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>						<b>L.001</b>	<b>L.01</b>	<b>L.010</b>		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>						<b>.003*</b>	<b>L.01</b>	<b>.028</b>	<b>1.30</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.07</b>		<b>.0025*</b>		<b>L.010</b>	<b>L.01</b>	<b>.050</b>	<b>1.60</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>						<b>L.010</b>	<b>L.01</b>	<b>.11</b>	<b>3.5</b>	<b>75<sup>e</sup></b>
<b>90TH</b>						<b>.012</b>	<b>.083</b>	<b>.200</b>		<b>90<sup>e</sup></b>
SECONDARY CODE				02P		07L 05L 04L	03L 04L	07L 04L 01L	01L	CODE DE SECOURS

	SUBM ID	28101L NICKEL DISSOLVED	28302P NICKEL EXTRBLE.	29105L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30105L ZINC DISSOLVED	30304P ZINC EXTRBL.	33103L ARSENIC DISSOLVED	33303L ARSENIC EXTRBLE.	
		NI MG/L	NI MG/L	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	AS MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0001</b>			<b>18(4)</b>	<b>7(5)</b>	<b>17(5)</b>	<b>7(5)</b>	<b>2(2)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0440</b>			<b>L.001</b>	<b>.005</b>	<b>L.001</b>	<b>L.01</b>	<b>L.0005</b>		<b>MINIMUM</b>
<b>HIGH</b>	<b>0402</b>			<b>L.064</b>	<b>L.01</b>	<b>.060</b>	<b>.021</b>	<b>L.0005</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.008*</b>	<b>.009*</b>	<b>.008*</b>	<b>.013*</b>			<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>.014*</b>	<b>.002*</b>	<b>.015*</b>	<b>.005*</b>			<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>				<b>.001</b>		<b>L.001</b>				<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>				<b>.002</b>	<b>.006</b>	<b>.001</b>	<b>L.01</b>			<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>				<b>.004</b>	<b>L.01</b>	<b>.003</b>	<b>L.01</b>	<b>L.0005</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>				<b>.006</b>	<b>L.01</b>	<b>.007</b>	<b>.020</b>			<b>75<sup>e</sup></b>
<b>90TH</b>				<b>.015</b>		<b>.025</b>				<b>90<sup>e</sup></b>
SECONDARY CODE				07L 06L	06L	04L 07L	04L 05P	04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10MC0001 LAT. 67 D 13 M 15 S LONG. 134 D 56 M 45 S

UTM 08 502400E 7455800 N  
MAY 25, 1972 TO/A OCT 04 1979PEEL RIVER ABOVE FORT MCPHERSON  
NORTHWEST TERRITORIES

		27302P COBALT EXTRBL.	34301P SELENIUM EXTRBL.	38301P STRONTIUM EXTRBL.	42301P MOLYBDENUM EXTRBL.	47301P SILVER EXTRBL.	48103L CADMIUM DISSOLVED	48302P CADMIUM EXTRBL.	56301P BARIUM EXTRBL.	
	SUBM ID	CO MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	BA MG/L	
SAMPLES(FLAGS)	0001	2(2)					10(10)	2(2)	2(0)	ECHANTILLONS(IND.)
LOW	0402	L.002					L.001	L.001	.1	MINIMUM
HIGH		L.002					L.001	L.001	.2	MAXIMUM
AVERAGE									.1	MOYENNE
STD.DEV.									.0	ECART-TYPE
PERCNT:10TH							L.001			10 <sup>th</sup> PERCNT
25TH							L.001			25 <sup>th</sup>
MEDIAN 50TH		L.002					L.001	L.001	.1	50 <sup>th</sup> MEDIANE
75TH							L.001			75 <sup>th</sup>
90TH							L.001			90 <sup>th</sup>
SECONDARY CODE										CODE DE SECOURS

		74301P TUNGSTEN EXTRBL.	80311P MERCURY EXTRBL.	81302P THALLIUM EXTRBL.	82103L LEAD DISSOLVED	82302P LEAD EXTRBL.	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	W MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0402				18(16)	7(7)	18(7)	23(1)	7(0)	ECHANTILLONS(IND.)
LOW	0001				L.001	L.004	.06	L.1	4.	MINIMUM
HIGH	0440				L.207	L.01	.10	609.	573.	MAXIMUM
AVERAGE					.016*		.09*	129.*	160.	MOYENNE
STD.DEV.					.049*		.02*	166.*	208.	ECART-TYPE
PERCNT:10TH					L.001		.06	3.		10 <sup>th</sup> PERCNT
25TH					L.001	L.004	.07	23.	20.	25 <sup>th</sup>
MEDIAN 50TH					.001*	L.01	L.10	78.	72.	50 <sup>th</sup> MEDIANE
75TH					L.002	L.01	L.10	143.	301.	75 <sup>th</sup>
90TH					L.05		.10	327.		90 <sup>th</sup>
SECONDARY CODE					04L 01L	01L	02L 04L	04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10MC0002** LAT. **67 D 26M 0 S** LONG. **134 D 53M 30 S**UTM **08 504600E 7479500 N**  
AUG 07, 1969 TO/À AUG 12, 1977PEEL RIVER AT FORT MCPHERSON,  
NORTHWEST TERRITORIES

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
	SUBM ID	USIE/CM								
<b>SAMPLES(FLAGS)</b>	0124	23(0)	27(0)	34(0)	34(5)	32(0)	27(0)	34(0)	27(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	186.	76.	63.9	L5.	.5	7.2	44.4	-.9	<b>MINIMUM</b>
<b>HIGH</b>	0056	412.	246.	215.	400.	460.	8.3	162.	.8	<b>MAXIMUM</b>
<b>AVERAGE</b>		314.	170.	157.5	49.*	60.5		113.0		<b>MOYENNE</b>
<b>STD.DEV.</b>		62.	45.	41.4	80.*	91.9		35.7		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		256.	105.	94.1	L5.	1.6	7.6	62.8	-.5	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		278.	140.	133.	5.	3.2	7.8	93.4	-.1	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		300.	169.	161.5	20.	31.5	7.9	113.0	.1	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		382.	213.	194.	60.	93.0	8.1	149.	.5	<b>75<sup>e</sup></b>
<b>90TH</b>		403.	220.	202.	G100.	140.	8.3	153.	.6	<b>90<sup>e</sup></b>
SECONDARY CODE				03F	11F	73F		01F		CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	0124	34(0)	34(0)	34(0)	27(0)	23(0)	23(0)	34(0)	34(0)	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	.4	1.0	21.5	2.5	0.	54.	1.1	21.0	<b>MINIMUM</b>
<b>HIGH</b>	0056	2.6	5.7	62.0	17.3	0.	187.	6.6	73.0	<b>MAXIMUM</b>
<b>AVERAGE</b>		.7	3.9	45.15	11.1	0.	130.	2.7	43.0	<b>MOYENNE</b>
<b>STD.DEV.</b>		.4	1.3	11.25	4.1	0.	43.	1.5	13.1	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.5	2.0	28.9	5.1	0.	77.	1.3	25.3	<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		.5	3.0	39.0	8.0	0.	85.	1.5	34.0	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		.6	4.0	46.60	11.3	0.	126.	2.2	43.6	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.7	5.1	54.6	13.8	0.	176.	4.3	48.8	<b>75<sup>e</sup></b>
<b>90TH</b>		.8	5.5	58.	16.6	0.	184.	4.5	59.0	<b>90<sup>e</sup></b>
SECONDARY CODE				01F				06L	06L 04L	CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07307L NITROGEN DISSOLVED NITRATE N MG/L	07551L NITROGEN DISSOLVED AMMONIA N MG/L	07652L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	14102L SILICA REACTIVE SiO2 MG/L	14201L SILICON SOL. ORTHO SILICATE Si MG/L	
	SUBM ID									
<b>SAMPLES(FLAGS)</b>	0124	29(19)	34(2)					34(0)		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	0001	L.1	L.001					1.3		<b>MINIMUM</b>
<b>HIGH</b>	0056	3.1	1.10					4.2		<b>MAXIMUM</b>
<b>AVERAGE</b>		.7*	.176*					3.16		<b>MOYENNE</b>
<b>STD.DEV.</b>		.6*	.206*					.72		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>		.2	.020					2.0		<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		L.5	.070					3.0		<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		L.5	.140					3.35		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		.5	.18					3.7		<b>75<sup>e</sup></b>
<b>90TH</b>		1.5	.29					3.9		<b>90<sup>e</sup></b>
SECONDARY CODE		02L	06L 06F							CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00NW10MC0002 LAT 67 D 26 M 0 S LONG 134 D 53 M 30 S

UTM 08 504600 7479500

AUG 07 1969 TO/A AUG 12 1977

PEEL RIVER AT FORT MCPHERSON  
NORTHWEST TERRITORIES

		15103L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313F PHOSPHORUS TOTAL INORG. PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15403L PHOSPHATE TOTAL PO4	06001L CARBON TOTAL ORGANIC	06051L CARBON TOTAL INORGANIC	08101F OXYGEN DISSOLVED DO	
	SUBM ID	P MG/L	P MG/L	P MG/L	P MG/L	P MG/L	C MG/L	C MG/L	O2 MG/L	
SAMPLES(FLAGS)	0124	2(1)	26(16)	13(1)	2(2)		27(3)	27(0)	2(0)	ECHANTILLONS(IND.)
LOW	0056	L.003	L.002	L.003	L.003		L.5	9.0	11.1	MINIMUM
HIGH	0001	.009	.020	.95	L.003		65.0	32.0	11.2	MAXIMUM
AVERAGE		.006*	.004*	.218*			10.5*	20.1	11.2	MOYENNE
STD.DEV.		.004*	.004*	.307*			13.7*	6.7	.1	ECART-TYPE
PERCNT:10TH			L.002	.005			L.5	12.		10 <sup>e</sup> PERCNT
25TH			L.002	.005			3.	14.0		25 <sup>e</sup>
MEDIAN 50TH		.006*	L.003	.12	L.003		6.0	20.0	11.1	50 <sup>e</sup> MEDIANE
75TH			.003	.31			12.0	25.0		75 <sup>e</sup>
90TH			.007	.76			28.0	30.		90 <sup>e</sup>
SECONDARY CODE			56L 55F 57L	13L 14L					02S	CODE DE SECOURS

		05105L BORON DISSOLVED B	03301P LITHIUM EXTRBLE. LI	23301P VANADIUM EXTRBLE. V	24302P CHROMIUM EXTRBLE. CR	25101L MANGANESE DISSOLVED MN	25304P MANGANESE EXTRBLE. MN	26102L IRON DISSOLVED FE	26304P IRON EXTRBLE FE	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	22(1)	26(4)	25(22)	33(27)	1(1)	34(2)	1(0)	34(0)	ECHANTILLONS(IND.)
LOW	0001	L.01	L.005	L.04	L.001	L.010	L.01	.020	.06	MINIMUM
HIGH	0056	.11	.053	.18	.052	L.010	.55	.020	24.5	MAXIMUM
AVERAGE		.05*	.010*	.0572*	.013*		.077*		3.949	MOYENNE
STD.DEV.		.02*	.010*	.0272*	.008*		.114*		6.501	ECART-TYPE
PERCNT:10TH		.03	L.005	L.05	L.010		.01		.08	10 <sup>e</sup> PERCNT
25TH		.04	.006	L.05	L.010		.01		.13	25 <sup>e</sup>
MEDIAN 50TH		.05	.007	L.05	L.010		.027		.830	50 <sup>e</sup> MEDIANE
75TH		.05	.010	L.05	L.015		.09		4.70	75 <sup>e</sup>
90TH		.07	.016	.07	.017		.16		9.80	90 <sup>e</sup>
SECONDARY CODE		02L							05P	CODE DE SECOURS

		28101L NICKEL DISSOLVED NI	28302P NICKEL EXTRBLE. NI	29105L COPPER DISSOLVED CU	29305P COPPER EXTRBLE. CU	30105L ZINC DISSOLVED ZN	30304P ZINC EXTRBL ZN	33103L ARSENIC DISSOLVED AS	33303L ARSENIC EXTRBLE. AS	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124	1(0)	33(6)		34(8)		34(2)	16(11)	1(1)	ECHANTILLONS(IND.)
LOW	0001	.007	L.001		L.001		L.001	L.0005	L.004	MINIMUM
HIGH	0056	.007	.041		.038		.14	.010	L.004	MAXIMUM
AVERAGE			.011*		.007*		.024*	.0043*		MOYENNE
STD.DEV.			.010*		.009*		.033*	.0026*		ECART-TYPE
PERCNT:10TH			.002		L.001		.002	L.0005		10 <sup>e</sup> PERCNT
25TH			L.005		.002		.004	.0027*		25 <sup>e</sup>
MEDIAN 50TH			.009		.004		.010*	L.0050		50 <sup>e</sup> MEDIANE
75TH			.014		L.01		.03	.0050*		75 <sup>e</sup>
90TH			.033		.014		.073	.007		90 <sup>e</sup>
SECONDARY CODE					06P		05P	04L		CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

MACKENZIE RIVER SUB-BASIN

STATION 00NW10MC0002 LAT. 67 D 26 M 0 S LONG. 134 D 53 M 30 S

UTM 08 504600 E 7479500 N  
AUG 07, 1969 TO/À AUG 12, 1977

PEEL RIVER AT FORT MCPHERSON,  
NORTHWEST TERRITORIES

		27302P COBALT EXTRBLE.	34301P SELENIUM EXTRBLE.	38301P STRONTIUM EXTRBLE.	42301P MOLYBDENUM EXTRBLE.	47301P SILVER EXTRBLE.	48103L CADMIUM DISSOLVED	48302P CADMIUM EXTRBLE.	56301P BARIUM EXTRBLE.	
	SUBM ID	CO MG/L	SE MG/L	SR MG/L	MO MG/L	AG MG/L	CD MG/L	CD MG/L	BA MG/L	
SAMPLES(FLAGS)	0124	33(14)		26(0)	32(32)		1(0)	33(24)	7(6)	ECHANTILLONS(IND.)
LOW	0001	L.001		.05	L.05		.001	L.001	L.0	MINIMUM
HIGH	0056	.015		.21	L.5		.001	.017	.1	MAXIMUM
AVERAGE		.004*		.14				.002*	.1*	MOYENNE
STD.DEV.		.004*		.04				.003*	.0*	ECART-TYPE
PERCNT:10TH		L.001		.09	L.05			L.001		10 <sup>e</sup> PERCNT
25TH		L.001		.11	L.05			L.001	L.0	25 <sup>e</sup>
MEDIAN 50TH		.003		.14	L.05			L.001	L.1	50 <sup>e</sup> MEDIANE
75TH		.005		.16	L.06			.001	L.1	75 <sup>e</sup>
90TH		.010		.18	L.10			.002		90 <sup>e</sup>
SECONDARY CODE		01P			01L		01L	01P	01L	CODE DE SECOURS

		74301P TUNGSTEN EXTRBLE.	80311P MERCURY EXTRBLE.	81302P THALLIUM EXTRBLE.	82103L LEAD DISSOLVED	82302P LEAD EXTRBLE.	09105L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	
	SUBM ID	W MG/L	HG UG/L	TL MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	
SAMPLES(FLAGS)	0124		7(7)			34(21)	28(0)	15(0)	14(1)	ECHANTILLONS(IND.)
LOW	0056		L.05			L.001	.05	3.	L.1	MINIMUM
HIGH	0001		L.05			.095	.09	961.	886.	MAXIMUM
AVERAGE						.007*	.07	272.	249.*	MOYENNE
STD.DEV.						.016*	.01	270.	248.*	ECART-TYPE
PERCNT:10TH						L.001	.05	7.	7.	10 <sup>e</sup> PERCNT
25TH			L.05			L.001	.06	35.	57.	25 <sup>e</sup>
MEDIAN 50TH			L.05			L.004	.07	260.	199.	50 <sup>e</sup> MEDIANE
75TH			L.05			.005	.08	360.	322.	75 <sup>e</sup>
90TH						.011	.09	655.	583.	90 <sup>e</sup>
SECONDARY CODE						01L				CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB BASIN

STATION 00NW10MC0003 LAT. 68 D 37 M 30 S LONG. 135 D 43 M 30 S

UTM 08 471000E 7613000 N  
SEP 05 1971 TO/A AUG 15 1972MACKENZIE RIVER WEST CHANNEL  
NORTHWEST TERRITORIES

	020415 SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CaCO <sub>3</sub> MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SUBM ID	USIE C M			PH UNITS					
SAMPLES(FLAGS) 0402	6(0)	3(0)	3(0)	6(0)	3(0)	3(0)	3(0)	3(0)	ECHANTILLONS(IND.)
LOW	200.	104.1	.02	7.5	.18	.010	9.4	1.04	MINIMUM
HIGH	380.	147.4	.08	7.9	.74	.030	10.6	1.44	MAXIMUM
AVERAGE	290.	119.5	.06		.48	.021	9.9	1.18	MOYENNE
STD.DEV.	75.	24.2	.03		.28	.010	.6	.23	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	200.			7.7					25 <sup>e</sup>
MEDIAN 50TH	310.	107.0	.08	7.8	.53	.022	9.6	1.05	50 <sup>e</sup> MEDIANE
75TH	340.			7.9					75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HCO <sub>3</sub> MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO <sub>4</sub> MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
SUBM ID									
SAMPLES(FLAGS) 0402	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)	3(0)		ECHANTILLONS(IND.)
LOW	.6	3.8	28.5	7.9	109.	2.2	14.7		MINIMUM
HIGH	.9	6.0	37.6	13.0	132.	8.5	29.1		MAXIMUM
AVERAGE	.8	5.2	31.60	9.9	118.	4.9	20.5		MOYENNE
STD.DEV.	2	1.2	5.20	2.8	13.	3.2	7.6		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	.7	5.8	28.7	8.7	112.	4.0	17.8		50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
SUBM ID									
SAMPLES(FLAGS) 0402	3(2)	3(0)	3(1)	3(0)		3(3)	3(2)	3(0)	ECHANTILLONS(IND.)
LOW	L.001	.08	L.002	.001		L.001	L.001	100.	MINIMUM
HIGH	.010	.35	.020	.002		L.002	L.014	452.	MAXIMUM
AVERAGE	.004*	.193	.012*	.002			.005*	258.	MOYENNE
STD.DEV.	.005*	.140	.009*	.001			.008*	179.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH									25 <sup>e</sup>
MEDIAN 50TH	L.001	.15	.014	.002		L.001	.001	221.	50 <sup>e</sup> MEDIANE
75TH									75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE								04L	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10MC0004** LAT. **68 D 25M 0 S** LONG. **135 D 25M 30 S**UTM **08 482000E 7589000 N**  
SEP 05, 1971 TO/A AUG 15, 1972MACKENZIE RIVER WEST CHANNEL,  
NORTHWEST TERRITORIES

		02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3	02075S TURBIDITY LIGHT PENETR. SECCHI DSC	10301F PH	07652L NITROGEN DISSOLVED	15101L PHOSPHORUS TOTAL DISSOLVED	08101F OXYGEN DISSOLVED DO O2	14201L SILICON SOL. ORTHO SILICATE SI	
	SUBM ID	USIE/CM	MG/L	M	PH UNITS	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>6(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>6(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>250.</b>	<b>105.4</b>	<b>.04</b>	<b>7.7</b>	<b>.53</b>	<b>.012</b>	<b>9.8</b>	<b>1.08</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>420.</b>	<b>153.3</b>	<b>.07</b>	<b>8.0</b>	<b>.55</b>	<b>.025</b>	<b>11.0</b>	<b>1.39</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>338.</b>	<b>122.1</b>	<b>.06</b>		<b>.54</b>	<b>.019</b>	<b>10.2</b>	<b>1.19</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>69.</b>	<b>27.0</b>	<b>.02</b>		<b>.01</b>	<b>.007</b>	<b>.7</b>	<b>.17</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>300.</b>			<b>7.8</b>					<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>320.</b>	<b>107.6</b>	<b>.07</b>	<b>7.8</b>	<b>.53</b>	<b>.019</b>	<b>9.8</b>	<b>1.11</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>420.</b>			<b>7.9</b>					<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		19105L POTASSIUM DISSOLVED K	11105L SODIUM DISSOLVED NA	20103L CALCIUM DISSOLVED CA	12102L MAGNESIUM DISSOLVED MG	06202F BICARBONT. LAB CALC. HCO3	17207L CHLORIDE DISSOLVED CL	16305L SULPHATE DISSOLVED SO4	13105L ALUMINUM DISSOLVED AL	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>		<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>	<b>3(0)</b>		<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>	<b>0402</b>	<b>.7</b>	<b>3.3</b>	<b>28.7</b>	<b>8.2</b>	<b>122.</b>	<b>1.0</b>	<b>26.6</b>		<b>MINIMUM</b>
<b>HIGH</b>		<b>.9</b>	<b>4.4</b>	<b>39.8</b>	<b>13.1</b>	<b>144.</b>	<b>2.7</b>	<b>35.2</b>		<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.8</b>	<b>3.7</b>	<b>32.70</b>	<b>9.8</b>	<b>129.</b>	<b>1.6</b>	<b>29.7</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.1</b>	<b>.6</b>	<b>6.17</b>	<b>2.8</b>	<b>13.</b>	<b>1.0</b>	<b>4.8</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.8</b>	<b>3.5</b>	<b>29.6</b>	<b>8.2</b>	<b>122.</b>	<b>1.0</b>	<b>27.3</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		25105L MANGANESE DISSOLVED MN	26104L IRON DISSOLVED FE	29107L COPPER DISSOLVED CU	30107L ZINC DISSOLVED ZN	33105L ARSENIC DISSOLVED AS	48103L CADMIUM DISSOLVED CD	82104L LEAD DISSOLVED PB	10401L RESIDUE NONFILTR.	
	SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>2(2)</b>	<b>3(1)</b>	<b>3(0)</b>	<b>3(0)</b>		<b>3(3)</b>	<b>3(1)</b>	<b>3(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>	<b>L.05</b>	<b>.012</b>	<b>.001</b>		<b>L.001</b>	<b>L.001</b>	<b>58.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.001</b>	<b>.13</b>	<b>.021</b>	<b>.005</b>		<b>L.001</b>	<b>.002</b>	<b>193.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.100*</b>	<b>.017</b>	<b>.002</b>			<b>.001*</b>	<b>148.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.044*</b>	<b>.005</b>	<b>.002</b>				<b>78.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.001</b>	<b>.12</b>	<b>.019</b>	<b>.001</b>		<b>L.001</b>	<b>.001</b>	<b>193.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE									<b>04L</b>	CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960 79

## MACKENZIE RIVER SUB BASIN

STATION 00NW10MC0005 LAT 68 D 38 M 0 S LONG 134 D 11 M 0 S

UTM 08 533000E 7613000 N

SEP 05 1971 TO/A DEC 05 1972

MACKENZIE RIVER MAIN CHANNEL  
NORTHWEST TERRITORIES

	02041S SPECIFIC CONDUCT.	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH PH UNITS	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
SAMPLES(FLAGS)	0402	10(0)	7(0)	2(0)	11(0)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW		100.	74.8	.02	7.4	.29	.011	5.4	MINIMUM
HIGH		300.	145.8	.06	8.1	.64	.121	14.0	MAXIMUM
AVERAGE		207.	125.4	.04	.45	.031	10.3	1.75	MOYENNE
STD.DEV.		84.	28.1	.03	.13	.040	3.7	.19	ECART-TYPE
PERCNT:10TH		100.			7.7				10 <sup>e</sup> PERCNT
25TH		120.	98.3		7.7	.33	.014	5.9	25 <sup>e</sup>
MEDIAN 50TH		225.	142.8	.04	7.9	.51	.015	9.8	50 <sup>e</sup> MEDIANE
75TH		300.	145.5		8.0	.54	.023	13.8	75 <sup>e</sup>
90TH		300.			8.0				90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HC03 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
SAMPLES(FLAGS)	0402	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	7(0)	ECHANTILLONS(IND.)
LOW		.9	4.5	11.5	7.3	106.	2.1	23.2	MINIMUM
HIGH		1.6	10.9	40.1	11.2	155.	35.0	67.8	MAXIMUM
AVERAGE		1.2	8.8	33.24	10.3	135.	14.2	44.8	MOYENNE
STD.DEV.		.2	2.7	10.58	1.5	18.	10.6	18.9	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		1.1	5.5	27.3	9.0	122.	5.4	25.1	25 <sup>e</sup>
MEDIAN 50TH		1.3	10.1	38.9	11.1	135.	13.0	36.6	50 <sup>e</sup> MEDIANE
75TH		1.3	10.8	39.8	11.2	151.	16.4	64.6	75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

CODE DE SECOURS

	25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
SAMPLES(FLAGS)	0402	7(3)	7(3)	7(0)	7(2)	7(6)	7(5)	7(1)	ECHANTILLONS(IND.)
LOW		L.001	L.05	.003	L.001	L.001	L.001	L1.	MINIMUM
HIGH		.020	.18	.030	.008	.002	.002	1047.	MAXIMUM
AVERAGE		.008*	.076*	.011	.002*	.001*	.002*	182.*	MOYENNE
STD.DEV.		.007*	.048*	.009	.003*	.000*	.001*	388.*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		L.001	L.05	.005	L.001	L.001	L.001	5.	25 <sup>e</sup>
MEDIAN 50TH		.010	.05	.007	.001	L.001	L.002	7.	50 <sup>e</sup> MEDIANE
75TH		.010	.09	.014	.002	L.001	L.002	199.	75 <sup>e</sup>
90TH									90 <sup>e</sup>

SECONDARY CODE

04L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-79

## MACKENZIE RIVER SUB-BASIN

STATION **00NW10MC0007** LAT. **68 D 36M 30 S** LONG. **134 D 56M 30 S**UTM **08 502000E 7610000 N**  
SEP 05, 1971 TO/A AUG 15, 1972NAPOIAK CHANNEL OF MACKENZIE RIVER,  
NORTHWEST TERRITORIES

	SUBM ID	02041S SPECIFIC CONDUCT. USIE/CM	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	02075S TURBIDITY LIGHT PENETR. SECCHI DSC M	10301F PH PH UNITS	07652L NITROGEN DISSOLVED N MG/L	15101L PHOSPHORUS TOTAL DISSOLVED P MG/L	08101F OXYGEN DISSOLVED DO O2 MG/L	14201L SILICON SOL. ORTHO SILICATE SI MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>4(0)</b>	<b>1(0)</b>		<b>4(0)</b>	<b>1(0)</b>	<b>1(0)</b>		<b>1(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>200.</b>	<b>124.6</b>		<b>7.7</b>	<b>.11</b>	<b>.013</b>		<b>1.55</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>360.</b>	<b>124.6</b>		<b>8.0</b>	<b>.11</b>	<b>.013</b>		<b>1.55</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>265.</b>								<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>68.</b>								<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>225.</b>			<b>7.8</b>					<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>250.</b>			<b>8.0</b>					<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>305.</b>			<b>8.0</b>					<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

	SUBM ID	19105L POTASSIUM DISSOLVED K MG/L	11105L SODIUM DISSOLVED NA MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06202F BICARBONT. LAB CALC. HCO3 MG/L	17207L CHLORIDE DISSOLVED CL MG/L	16305L SULPHATE DISSOLVED SO4 MG/L	13105L ALUMINUM DISSOLVED AL MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>				<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>1.0</b>	<b>5.2</b>	<b>34.9</b>	<b>9.1</b>	<b>122.</b>				<b>MINIMUM</b>
<b>HIGH</b>		<b>1.0</b>	<b>5.2</b>	<b>34.9</b>	<b>9.1</b>	<b>122.</b>				<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>										<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

	SUBM ID	25105L MANGANESE DISSOLVED MN MG/L	26104L IRON DISSOLVED FE MG/L	29107L COPPER DISSOLVED CU MG/L	30107L ZINC DISSOLVED ZN MG/L	33105L ARSENIC DISSOLVED AS MG/L	48103L CADMIUM DISSOLVED CD MG/L	82104L LEAD DISSOLVED PB MG/L	10401L RESIDUE NONFILTR. MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0402</b>	<b>1(1)</b>	<b>1(0)</b>	<b>1(0)</b>	<b>1(0)</b>		<b>1(1)</b>	<b>1(1)</b>	<b>1(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.001</b>	<b>.05</b>	<b>.010</b>	<b>.004</b>		<b>L.001</b>	<b>L.001</b>	<b>123.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.001</b>	<b>.05</b>	<b>.010</b>	<b>.004</b>		<b>L.001</b>	<b>L.001</b>	<b>123.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>										<b>MOYENNE</b>
<b>STD.DEV.</b>										<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>										<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>										<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>										<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										04L CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00YT10MA0001 LAT 65 D 53 M 39 S LONG 136 D 2 M 9 S

UTM 08 452800E 7308300 N  
MAY 12, 1969 TO/A JUL 09 1974PEEL RIVER AT W.S.C. GAUGE ABOVE  
CANYON CREEK, YUKON TERRITORY

		02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL. UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	SUBM ID	USIE/CM								ECHANTILLONS(IND.)
LOW	0001	17(0)	16(0)	17(0)	17(6)	17(0)	16(0)	16(0)	16(0)	MINIMUM
HIGH		35.	89.	84.5	L5.	1.1	7.5	60.9	-.7	MAXIMUM
AVERAGE		352.	189.	178.	120.	120.	8.3	144.	.6	MOYENNE
STD.DEV.		250.	143.	134.0	25.*	17.0		101.2		ECART-TYPE
		81.	33.	30.5	30.*	29.0		24.7		
PERCNT:10TH		173.	91.	84.5	L5.	1.3	7.8	67.7	-.2	10 <sup>th</sup> PERCNT
25TH		196.	110.	106.	L5.	2.5	8.0	77.8	.0	25 <sup>th</sup>
MEDIAN 50TH		272.	151.	143.	10.	5.2	8.1	103.0	.2	50 <sup>th</sup> MEDIANE
75TH		295.	160.	152.	30.	16.0	8.1	115.5	.4	75 <sup>th</sup>
90TH		340.	189.	172.	70.	47.0	8.3	138.	.5	90 <sup>th</sup>

SECONDARY CODE

CODE DE SECOURS

		19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONATE (CALCD.) HCO3 MG/L	17203L CHLORIDE DISSOLVED CL MG/L	16303L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001	17(0)	17(0)	17(0)		16(0)	16(0)	17(0)	16(0)	MINIMUM
HIGH		.2	1.1	23.6		0.	74.	.5	12.0	MAXIMUM
AVERAGE		1.4	4.7	52.7		0.	176.	3.6	46.7	MOYENNE
STD.DEV.		.5	2.9	37.35		0.	123.	1.7	30.9	ECART-TYPE
		.3	1.0	9.22		0.	30.	1.0	8.7	
PERCNT:10TH		.3	1.3	24.4		0.	83.	.6	16.4	10 <sup>th</sup> PERCNT
25TH		.4	2.1	29.5		0.	95.	.9	25.7	25 <sup>th</sup>
MEDIAN 50TH		.4	3.0	37.4		0.	126.	1.3	33.1	50 <sup>th</sup> MEDIANE
75TH		.5	3.4	44.4		0.	141.	2.7	36.1	75 <sup>th</sup>
90TH		1.0	4.1	51.9		0.	168.	3.4	39.6	90 <sup>th</sup>

SECONDARY CODE

06L

06L

CODE DE SECOURS

		07001L NITROGEN TOTAL KJELDAHL N MG/L	07105L NITROGEN DISSOLVED NO3 & NO2 N MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15313F PHOSPHORUS TOTAL INORG. PO4 P MG/L	15363L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15413L PHOSPHORUS TOTAL P MG/L	14102L SILICA REACTIVE SiO2 MG/L	
SAMPLES(FLAGS)	SUBM ID									ECHANTILLONS(IND.)
LOW	0001	13(1)		8(7)		2(1)	7(4)		13(0)	MINIMUM
HIGH		L.001		L.002		L.002	L.001		.7	MAXIMUM
AVERAGE		.210		.003		.010	.003		4.0	MOYENNE
STD.DEV.		.101*		.002*		.006*	.002*		2.82	ECART-TYPE
		.068*		.000*		.006*	.001*		.84	
PERCNT:10TH		.036							2.0	10 <sup>th</sup> PERCNT
25TH		.040			L.002		L.001		2.5	25 <sup>th</sup>
MEDIAN 50TH		.090			L.002	.006*	L.001		2.9	50 <sup>th</sup> MEDIANE
75TH		.160			L.002		.003		3.4	75 <sup>th</sup>
90TH		.170							3.5	90 <sup>th</sup>

SECONDARY CODE

06L

57L

14L

CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00YT10MA0001** LAT. **65 D 53 M 39 S** LONG. **136 D 2 M 9 S**UTM **08 452800E 7308300 N**  
MAY 12, 1969 TO/À DEC 10, 1972PEEL RIVER AT W.S.C. GAUGE ABOVE  
CANYON CREEK, YUKON TERRITORY

	06001L CARBON TOTAL ORGANIC C	08102S OXYGEN DISSOLVED DO O2	09105L FLUORIDE DISSOLVED F	03301P LITHIUM EXTRBLE. LI	05105L BORON DISSOLVED B	23301P VANADIUM EXTRBLE. V	24302P CHROMIUM EXTRBLE. CR	27302P COBALT EXTRBLE. CO	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0001	6(0)		9(1)						<b>ECHANTILLONS(IND.)</b>
LOW	4.0		L.05						<b>MINIMUM</b>
HIGH	20.0		.15						<b>MAXIMUM</b>
AVERAGE	9.0		.07*						<b>MOYENNE</b>
STD.DEV.	5.7		.03*						<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH	5.0		.05						<b>25<sup>e</sup></b>
MEDIAN 50TH	8.0		.06						<b>50<sup>e</sup> MEDIANE</b>
75TH	9.0		.07						<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE			04L						<b>CODE DE SECOURS</b>

	25101L MANGANESE DISSOLVED MN	25304P MANGANESE EXTRBLE. MN	26102L IRON DISSOLVED FE	26304P IRON EXTRBLE. FE	28302P NICKEL EXTRBLE. NI	29305P COPPER EXTRBLE. CU	30305P ZINC EXTRBLE. ZN	33103L ARSENIC DISSOLVED AS	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0001	8(7)	1(1)	8(3)			1(1)	1(1)		<b>ECHANTILLONS(IND.)</b>
LOW	L.01	L.01	L.001			L.01	L.01		<b>MINIMUM</b>
HIGH	.08	L.01	.280			L.01	L.01		<b>MAXIMUM</b>
AVERAGE	.019*		.050*						<b>MOYENNE</b>
STD.DEV.	.025*		.094*						<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH	L.010		L.001						<b>25<sup>e</sup></b>
MEDIAN 50TH	L.010		.020						<b>50<sup>e</sup> MEDIANE</b>
75TH	L.010		.040						<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE	04L	04L				06L	04L		<b>CODE DE SECOURS</b>

	38301P STRONTIUM EXTRBLE. SR	42301P MOLYBDENUM EXTRBLE. MO	48302P CADMIUM EXTRBLE. CD	56301P BARIUM EXTRBLE. BA	80311P MERCURY EXTRBLE. HG	82302P LEAD EXTRBLE. PB	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	
SUBM ID	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0001						1(1)	9(0)	9(0)	<b>ECHANTILLONS(IND.)</b>
LOW						L.01	6.	4.	<b>MINIMUM</b>
HIGH						L.01	127.	95.	<b>MAXIMUM</b>
AVERAGE							45.	33.	<b>MOYENNE</b>
STD.DEV.							37.	29.	<b>ECART-TYPE</b>
PERCNT:10TH									<b>10<sup>e</sup> PERCNT</b>
25TH							18.	13.	<b>25<sup>e</sup></b>
MEDIAN 50TH							34.	23.	<b>50<sup>e</sup> MEDIANE</b>
75TH							62.	48.	<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE						01L			<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION 00YT10MA0002 LAT. 65 D 38 M 50 S LONG. 138 D 7 M 30 S

UTM 07 632200E 7283400 N  
OCT 04 1977 TO/A AUG 01 1978OGILVIE RIVER 31.5 KM NNE FROM  
CONFLUENCE WITH ENGINEER CREEK.

	62041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SUBM ID	USIE CM								
SAMPLES(FLAGS) 0321	6(0)	6(0)	6(0)	6(1)	6(0)	6(0)	6(0)	6(0)	ECHANTILLONS(IND.)
LOW	135.	78.	64.7	15.	.2	7.5	44.1	-1.0	MINIMUM
HIGH	432.	259.	212.	100.	38.	8.4	175.	.8	MAXIMUM
AVERAGE	341.	200.	166.4	37.*	10.4		121.1		MOYENNE
STD.DEV.	129.	79.	63.3	42.*	15.8		49.5		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	222.	122.	109.	5.	.4	7.8	78.6	-.3	25 <sup>e</sup>
MEDIAN 50TH	414.	242.	204.0	15.	1.3	8.0	138.0	.5	50 <sup>e</sup> MEDIANE
75TH	432.	256.	205.	80.	21.	8.2	153.	.6	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SUBM ID									
SAMPLES(FLAGS) 0321	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	ECHANTILLONS(IND.)
LOW	.3	3.0	22.2	2.2	0.	54.	1.3	22.	MINIMUM
HIGH	.9	11.7	62.6	14.6	1.	213.	3.9	88.0	MAXIMUM
AVERAGE	.5	7.5	49.17	10.6	0.	147.	2.6	57.0	MOYENNE
STD.DEV.	.2	3.8	17.00	5.1	1.	60.	1.0	27.6	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.4	3.9	33.4	6.2	0.	96.	1.5	30.	25 <sup>e</sup>
MEDIAN 50TH	.5	7.3	58.30	13.4	0.	168.	2.9	58.0	50 <sup>e</sup> MEDIANE
75TH	.5	11.6	60.2	13.8	0.	184.	3.1	86.0	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07557L NITROGEN DISSOLVED AMMONIA N MG/L	15102L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15313L PHOSPHORUS TOTAL INORG. PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SUBM ID									
SAMPLES(FLAGS) 0321	6(0)	5(2)	1(0)				6(0)	6(1)	ECHANTILLONS(IND.)
LOW	.021	L.002	.002				.003	3.2	MINIMUM
HIGH	.23	.015	.002				.19	26.	MAXIMUM
AVERAGE	.082	.006*					.048	10.4*	MOYENNE
STD.DEV.	.076	.006*					.076	8.7*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.033	L.002					.003	3.5	25 <sup>e</sup>
MEDIAN 50TH	.067	.002					.007	8.4*	50 <sup>e</sup> MEDIANE
75TH	.071	.008					.079	13.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values / Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00YT10MA0002** LAT. **65 D 38 M 50 S** LONG. **138 D 7 M 30 S**UTM **07 632200E 7283400 N**  
OCT 04, 1977 TO/À AUG 01, 1978OGILVIE RIVER 31.5 KM NNE FROM  
CONFLUENCE WITH ENGINEER CREEK.

	14105L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	08103F OXYGEN DISSOLVED DO	25105L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26107L IRON DISSOLVED	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	
SUBM ID	SI02 MG/L	SI MG/L	O2 MG/L	MN MG/L	MN MG/L	FE MG/L	CO MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b> 0321	6(0)		6(0)		6(4)		1(1)	3(0)	ECHANTILLONS(IND.)
LOW	2.0		9.0		L.01		L.001	.003	MINIMUM
HIGH	3.5		15.5		.02		L.001	.022	MAXIMUM
AVERAGE	3.0		12.2		.01*			.010	MOYENNE
STD.DEV.	.5		2.6		.00*			.010	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	2.9		10.5		L.01				25 <sup>e</sup>
MEDIAN 50TH	3.2		11.5		L.01			.006	50 <sup>e</sup> MEDIANE
75TH	3.3		15.0		.01				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	29107L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30107L ZINC DISSOLVED	30305P ZINC EXTRBLE.	33304L ARSENIC EXTRBLE.	34302L SELENIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	48302P CADMIUM EXTRBLE.	
SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	SE MG/L	MO MG/L	CD MG/L	
<b>SAMPLES(FLAGS)</b> 0321		5(0)		6(0)	6(3)	3(0)	2(0)	1(1)	ECHANTILLONS(IND.)
LOW		.001		.003	L.0001	.0009	.001	L.000	MINIMUM
HIGH		.021		.02	.0012	.0014	.001	L.000	MAXIMUM
AVERAGE		.006		.013	.0004*	.0011	.0010		MOYENNE
STD.DEV.		.009		.007	.0005*	.0003	.0000		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.001		.007	L.0001				25 <sup>e</sup>
MEDIAN 50TH		.002		.014	.0001*	.0010	.0010		50 <sup>e</sup> MEDIANE
75TH		.004		.02	.0011				75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE				04P					CODE DE SECOURS

	56301P BARIUM EXTRBLE.	82104L LEAD DISSOLVED	82302P LEAD EXTRBLE.	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	BA MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0321	5(2)		6(4)	4(0)	6(2)	6(0)	6(3)	6(0)	ECHANTILLONS(IND.)
LOW	L.1		L.001	.1	L.1	107.	L.1	43.	MINIMUM
HIGH	.1		.003	.1	162.	291.	138.	250.	MAXIMUM
AVERAGE	.10*		.001*	.1	38.*	228.	33.*	176.	MOYENNE
STD.DEV.	.00*		.001*	.0	65.*	72.	56.*	79.	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	L.1		L.001	.1	L.1	177.	L.1	116.	25 <sup>e</sup>
MEDIAN 50TH	.1		L.001	.1	2.	253.	1.*	209.	50 <sup>e</sup> MEDIANE
75TH	.1		.001	.1	62.	289.	54.	227.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE	02P 01L								CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

MACKENZIE RIVER SUB-BASIN

STATION 00YT10MA0006 LAT. 65 D 23M 45 S LONG. 138 D 15M 55 S

UTM 07 627000E 7255200 N  
OCT 05. 1977 TO/A AUG 01. 1978

OGILVIE RIVER 4.1 KM NNE OF CONFLUENCE  
WITH ENGINEER CREEK. STATION 6.

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIF CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS
SAMPLES(FLAGS)	0321	11(0)	11(0)	11(0)	11(7)	11(0)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW		124.	71.	56.5	L5.	.2	7.4	39.4	MINIMUM
HIGH		568.	335.	279.	120.	37.	8.3	205.	MAXIMUM
AVERAGE		443.	261.	216.9	25.*	6.5		159.4	MOYENNE
STD.DEV.		147.	89.	73.8	42.*	13.1		54.9	ECART-TYPE
PERCNT:10TH		192.	105.	95.6	L5.	.2	7.7	72.5	10 <sup>e</sup> PERCNT
25TH		425.	250.	206.	L5.	.2	8.1	143.	25 <sup>e</sup>
MEDIAN 50TH		510.	303.	253.	L5.	.3	8.1	186.	50 <sup>e</sup> MEDIANE
75TH		520.	306.	256.	10.	3.2	8.2	191.	75 <sup>e</sup>
90TH		554.	329.	274.	100.	28.	8.2	200.	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONT. (CALCD.)	17206L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L
SAMPLES(FLAGS)	0321	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	11(0)	ECHANTILLONS(IND.)
LOW		.3	3.4	20.0	1.6	0.	48.	1.0	20.
HIGH		.7	12.6	77.2	22.3	0.	250.	11.9	90.
AVERAGE		.5	10.1	62.35	14.9	0.	194.	6.9	70.4
STD.DEV.		.1	3.3	20.33	6.0	0.	67.	3.7	24.9
PERCNT:10TH		.5	3.5	27.9	6.3	0.	88.	1.3	23.
25TH		.5	10.5	56.2	14.6	0.	174.	3.9	70.
MEDIAN 50TH		.5	11.6	73.0	16.1	0.	227.	8.1	78.5
75TH		.6	11.9	75.0	16.7	0.	233.	9.1	88.0
90TH		.6	12.0	75.8	21.8	0.	244.	11.6	90.
SECONDARY CODE									CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2	07557L NITROGEN DISSOLVED AMMONIA	15102L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313L PHOSPHORUS TOTAL INORG. PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	MG/L	
SAMPLES(FLAGS)	0321	11(0)	11(2)	6(0)			11(0)	11(2)	ECHANTILLONS(IND.)
LOW		.019	L.002	.004			.002	L1.0	MINIMUM
HIGH		.28	.067	.097			.117	20.	MAXIMUM
AVERAGE		.137	.010*	.022			.024	7.1*	MOYENNE
STD.DEV.		.099	.019*	.037			.046	6.8*	ECART-TYPE
PERCNT:10TH		.021	L.002				.002	L1.0	10 <sup>e</sup> PERCNT
25TH		.025	.002	.005			.002	1.5	25 <sup>e</sup>
MEDIAN 50TH		.14	.003	.008			.004	6.0	50 <sup>e</sup> MEDIANE
75TH		.22	.006	.012			.005	15	75 <sup>e</sup>
90TH		.28	.010				.116	16	90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00YT10MA0006** LAT. **65 D 23M 45 S** LONG. **138 D 15M 55 S**UTM **07 627000E 7255200 N**  
OCT 05, 1977 TO/À AUG 01, 1978OGILVIE RIVER 4.1 KM NNE OF CONFLUENCE  
WITH ENGINEER CREEK. STATION 6.

	14105L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	08103F OXYGEN DISSOLVED DO	25105L MANGANESE DISSOLVED	25304P MANGANESE EXTRBL.	26107L IRON DISSOLVED	27302P COBALT EXTRBL.	28302P NICKEL EXTRBL.	
SUBM ID	SiO2 MG/L	Si MG/L	O2 MG/L	MN MG/L	MN MG/L	FE MG/L	CO MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b> 0321	11(0)		11(0)		11(8)		2(2)	4(0)	<b>ECHANTILLONS(IND.)</b>
LOW	2.0		5.0		L.01		L.001	.003	<b>MINIMUM</b>
HIGH	4.2		12.5		.02		L.001	.005	<b>MAXIMUM</b>
AVERAGE	3.7		8.8		.01*			.004	<b>MOYENNE</b>
STD.DEV.	.7		2.3		.00*			.001	<b>ECART-TYPE</b>
PERCNT:10TH	3.2		5.5		L.01				<b>10<sup>e</sup> PERCNT</b>
25TH	3.3		7.3		L.01			.003	<b>25<sup>e</sup></b>
MEDIAN 50TH	4.0		9.0		L.01		L.001	.003	<b>50<sup>e</sup> MEDIANE</b>
75TH	4.2		11.0		.01			.004	<b>75<sup>e</sup></b>
90TH	4.2		11.0		.01				<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	29107L COPPER DISSOLVED	29305P COPPER EXTRBL.	30107L ZINC DISSOLVED	30305P ZINC EXTRBL.	33304L ARSENIC EXTRBL.	34302L SELENIUM EXTRBL.	42302P MOLYBDENUM EXTRBL.	48302P CADMIUM EXTRBL.	
SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	SE MG/L	MO MG/L	CD MG/L	
<b>SAMPLES(FLAGS)</b> 0321		10(2)		11(0)	11(6)	8(0)	3(1)	2(2)	<b>ECHANTILLONS(IND.)</b>
LOW		L.001		.004	L.0001	.0011	L.001	L.000	<b>MINIMUM</b>
HIGH		.011		.013	.0009	.0015	.004	L.000	<b>MAXIMUM</b>
AVERAGE		.003*		.008	.0002*	.0012	.0027*		<b>MOYENNE</b>
STD.DEV.		.003*		.003	.0003*	.0001	.0015*		<b>ECART-TYPE</b>
PERCNT:10TH		L.001		.005	L.0001				<b>10<sup>e</sup> PERCNT</b>
25TH		.001		.005	L.0001	.0012			<b>25<sup>e</sup></b>
MEDIAN 50TH		.002		.008	L.0001	.0012	.003	L.000	<b>50<sup>e</sup> MEDIANE</b>
75TH		.003		.009	.0002	.0013			<b>75<sup>e</sup></b>
90TH		.008		.009	.0005				<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

	56301P BARIUM EXTRBL.	82104L LEAD DISSOLVED	82302P LEAD EXTRBL.	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	BA MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0321	10(1)		11(6)	5(1)	11(3)	11(0)	11(5)	11(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.1		L.001	L.0	L.1	104.	L.1	62.	<b>MINIMUM</b>
HIGH	.1		.002	.2	117.	373.	102.	287.	<b>MAXIMUM</b>
AVERAGE	.10*		.001*	.1*	20.*	285.	17.*	226.	<b>MOYENNE</b>
STD.DEV.	.00*		.000*	.1*	40.*	86.	35.*	76.	<b>ECART-TYPE</b>
PERCNT:10TH	.10*		L.001		L.1	144.	L.1	97.	<b>10<sup>e</sup> PERCNT</b>
25TH	.1		L.001	.1	L.1	258.	L.1	209.	<b>25<sup>e</sup></b>
MEDIAN 50TH	.10		L.001	.1	2.	321.	1.	255.	<b>50<sup>e</sup> MEDIANE</b>
75TH	.1		.001	.1	8.	334.	7.	278.	<b>75<sup>e</sup></b>
90TH	.10		.001		82.	351.	71.	283.	<b>90<sup>e</sup></b>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

MACKENZIE RIVER BASIN 1960-1979

MACKENZIE RIVER SUB BASIN

STATION 00YT10MA0008 LAT. 65 D 21M 35 S LONG. 138 D 17M 30 S

UTM 07 626000E 7251000 N  
OCT 05 1977 TO/A AUG 02 1978

ENGINEER CREEK AT DEMPSTER HWY. BRIDGE  
0.5 KM ABOVE CONFLUENCE WITH OGILVIE R

	02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00213L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	REL. UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0321	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW		176.	97.	85.3	L5.	4.	7.4	44.1	MINIMUM
HIGH		703.	458.	364.	160.	52.	8.2	187.	MAXIMUM
AVERAGE		455.	281.	229.9	56.*	15.8		122.6	MOYENNE
STD.DEV.		252	171.	130.4	71.*	21.2		61.7	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		208	115.	107.	5.	.5	7.7	72.0	25 <sup>e</sup>
MEDIAN 50TH		511.	296.	246.	10.	12.	7.9	144.	50 <sup>e</sup> MEDIANE
75TH		679	436.	347.	100.	14.	8.0	166.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONAT. (CALCD.)	17206L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	MG/L	SO4 MG/L
SAMPLES(FLAGS)	0321	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW		.3	1.6	25.0	5.6	0.	54.	1.7	30.
HIGH		1.0	12.6	105.	24.7	0.	228.	14.7	223.
AVERAGE		.7	7.6	65.48	16.1	0.	149.	7.3	109.8
STD.DEV.		3	5.5	36.95	9.3	0.	75.	5.3	88.8
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		6	1.8	31.6	6.8	0.	88.	2.7	35
MEDIAN 50TH		.8	9.5	67.0	19.1	0.	176.	8.6	76.
75TH		9	12.4	98.8	24.4	0.	202.	8.7	185
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2	07557L NITROGEN DISSOLVED AMMONIA	15102L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313L PHOSPHORUS TOTAL INORG. PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	P MG/L	P MG/L	P MG/L	P MG/L	MG/L	
SAMPLES(FLAGS)	0321	5(0)	5(1)				5(0)	5(1)	ECHANTILLONS(IND.)
LOW		.020	L.002				.003	L5.3	MINIMUM
HIGH		.17	.051				.56	21.	MAXIMUM
AVERAGE		.093	.018*				.137	13.0*	MOYENNE
STD.DEV.		069	.020*				.239	6.8*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH		.025	.003				.003	6.9	25 <sup>e</sup>
MEDIAN 50TH		.099	.011				.023	14.	50 <sup>e</sup> MEDIANE
75TH		.15	.021				.097	18	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00YT10MA0008** LAT. **65 D 21M 35 S** LONG. **138 D 17M 30 S**UTM **07 626000E 7251000 N**  
OCT 05, 1977 TO/A AUG 02, 1978ENGINEER CREEK AT DEMPSTER HWY. BRIDGE  
0.5 KM ABOVE CONFLUENCE WITH OGILVIE R

	14105L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	08103F OXYGEN DISSOLVED DO	25105L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26107L IRON DISSOLVED	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	
SUBM ID	SiO2 MG/L	SI MG/L	O2 MG/L	MN MG/L	MN MG/L	FE MG/L	CO MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b> 0321	5(0)		5(0)		5(2)		1(1)	3(0)	<b>ECHANTILLONS(IND.)</b>
LOW	2.1		5.5		L.01		L.001	.004	<b>MINIMUM</b>
HIGH	4.3		12.0		.05		L.001	.020	<b>MAXIMUM</b>
AVERAGE	3.5		10.0		.02*			.012	<b>MOYENNE</b>
STD.DEV.	.8		2.6		.02*			.008	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	3.5		10.0		L.01				<b>25<sup>e</sup></b>
MEDIAN 50TH	3.7		11.3		.01			.012	<b>50<sup>e</sup> MEDIANE</b>
75TH	4.0		11.5		.02				<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE									<b>CODE DE SECOURS</b>

	29107L COPPER DISSOLVED CU	29305P COPPER EXTRBLE. CU	30107L ZINC DISSOLVED ZN	30305P ZINC EXTRBLE. ZN	33304L ARSENIC EXTRBLE. AS	34302L SELENIUM EXTRBLE. SE	42302P MOLYBDENUM EXTRBLE. MO	48302P CADMIUM EXTRBLE. CD	
SUBM ID	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0321		4(0)		5(0)	5(0)	2(0)	2(0)	1(1)	<b>ECHANTILLONS(IND.)</b>
LOW		.001		.007	.0001	.0013	.002	L.000	<b>MINIMUM</b>
HIGH		.011		.16	.0045	.0019	.004	L.000	<b>MAXIMUM</b>
AVERAGE		.005		.049	.0012	.0016	.0030		<b>MOYENNE</b>
STD.DEV.		.004		.064	.0019	.0004	.0014		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH		.002		.010	.0002				<b>25<sup>e</sup></b>
MEDIAN 50TH		.003		.019	.0003	.0016	.0030		<b>50<sup>e</sup> MEDIANE</b>
75TH		.007		.05	.0008				<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE				04P					<b>CODE DE SECOURS</b>

	56301P BARIUM EXTRBLE.	82104L LEAD DISSOLVED	82302P LEAD EXTRBLE.	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
SUBM ID	BA MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b> 0321	4(2)		5(4)	4(0)	5(0)	5(0)	5(1)	5(0)	<b>ECHANTILLONS(IND.)</b>
LOW	L.1		L.001	.1	1.	143.	L1.	97.	<b>MINIMUM</b>
HIGH	.1		.001	.3	353.	500.	303.	429.	<b>MAXIMUM</b>
AVERAGE	.10*		.001*	.2	79.	318.	67.*	244.	<b>MOYENNE</b>
STD.DEV.	.00*		.000*	.1	154.	167.	132.*	149.	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>									<b>10<sup>e</sup> PERCNT</b>
25TH	L.10		L.001	.1	2.	160.	2.	100.	<b>25<sup>e</sup></b>
MEDIAN 50TH	.10*		L.001	.1	8.	314.	6.	240.	<b>50<sup>e</sup> MEDIANE</b>
75TH	.10		L.001	.2	31.	471.	21.	353.	<b>75<sup>e</sup></b>
90TH									<b>90<sup>e</sup></b>
SECONDARY CODE	01L 02P								<b>CODE DE SECOURS</b>

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives



## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00YT10MA0011 LAT. 65 D 21M 30 S LONG. 138 D 18M 20 S

UTM 07 625400E 7250800N  
OCT 06 1977 TO/A AUG 02 1978OGILVIE RIVER 0.5 KM UPSTREAM OF  
CONFLUENCE WITH ENGINEER CREEK.

		02041L SPECIFIC CONDUCT.	00203L TOTAL DISSOLVED SOLIDS (CALCD.)	10603L HARDNESS TOTAL	02011L COLOUR APPARENT	02073L TURBIDITY	10301L PH	10101L ALKALINITY TOTAL	00210L SATURATION INDEX (CALCD.)	
	SUBM ID	USIE CM	MG/L	CACO3 MG/L	REL UNITS	JTU	PH UNITS	CACO3 MG/L	PH UNITS	
SAMPLES(FLAGS)	0321	8(0)	8(0)	8(0)	8(1)	8(0)	8(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW		137.	78.	63.1	L5.	.3	7.4	44.4	-1.0	MINIMUM
HIGH		575.	331.	278.	160.	32.	8.4	209.	.7	MAXIMUM
AVERAGE		343.	200.	163.0	52.*	10.0		118.5		MOYENNE
STD.DEV.		162.	97.	75.9	64.*	13.6		56.4		ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		172.	95.	85.9	5.	.5	7.7	63.5	-.7	25 <sup>e</sup>
MEDIAN 50TH		411.	240.	196.5	10.	.9	8.0	137.5	.5	50 <sup>e</sup> MEDIANE
75TH		434.	261.	199.0	110.	22.5	8.2	146.5	.6	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		19103L POTASSIUM DISSOLVED	11103L SODIUM DISSOLVED	20101L CALCIUM DISSOLVED	12101L MAGNESIUM DISSOLVED (CALCD.)	06301L CARBONATE (CALCD.)	06201L BICARBONATE (CALCD.)	17206L CHLORIDE DISSOLVED	16306L SULPHATE DISSOLVED	
	SUBM ID	K MG/L	NA MG/L	CA MG/L	MG MG/L	CO3 MG/L	HCO3 MG/L	CL MG/L	S04 MG/L	
SAMPLES(FLAGS)	0321	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	8(0)	ECHANTILLONS(IND.)
LOW		.2	2.1	21.7	2.2	0.	54.	1.3	16.7	MINIMUM
HIGH		.8	14.8	73.4	23.0	1.	255.	13.6	89.5	MAXIMUM
AVERAGE		.5	9.6	45.69	11.9	0.	144.	3.9	57.2	MOYENNE
STD.DEV.		.2	5.5	18.78	7.2	0.	69.	4.1	31.1	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.4	3.7	26.10	5.0	0.	77.	1.4	23.5	25 <sup>e</sup>
MEDIAN 50TH		.6	12.0	52.20	13.8	0.	168.	3.0	67.0	50 <sup>e</sup> MEDIANE
75TH		.7	14.3	56.90	16.1	0.	177.	4.0	85.3	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

		07110L NITROGEN DISSOLVED NO3 & NO2	07557L NITROGEN DISSOLVED AMMONIA	15102L PHOSPHORUS TOTAL DISSOLVED	15255L PHOSPHORUS DISSOLVED ORTHO PO4	15313L PHOSPHORUS TOTAL INORG. PO4	15356L PHOSPHORUS DISSOLVED INORG. PO4	15406L PHOSPHORUS TOTAL	06001L CARBON TOTAL ORGANIC	
	SUBM ID	N MG/L	N MG/L	P MG/L	MG/L	MG/L	P MG/L	P MG/L	C MG/L	
SAMPLES(FLAGS)	0321	7(0)	7(3)	2(0)				8(0)	7(1)	ECHANTILLONS(IND.)
LOW		.011	L.002	.019				.002	3.5	MINIMUM
HIGH		.14	.014	.023				.098	20.	MAXIMUM
AVERAGE		.042	.005*	.021				.037	10.5*	MOYENNE
STD.DEV.		.046	.004*	.003				.046	7.8*	ECART-TYPE
PERCNT:10TH										10 <sup>e</sup> PERCNT
25TH		.013	L.002					.003	3.5	25 <sup>e</sup>
MEDIAN 50TH		.022	.004	.021				.005	5.4	50 <sup>e</sup> MEDIANE
75TH		.048	.004					.089	19.	75 <sup>e</sup>
90TH										90 <sup>e</sup>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00YT10MA0011** LAT. **65 D 21 M 30 S** LONG. **138 D 18 M 20 S**UTM **07 625400E 7250800 N**  
OCT 06, 1977 TO/À AUG 02, 1978OGILVIE RIVER 0.5 KM UPSTREAM OF  
CONFLUENCE WITH ENGINEER CREEK.

		14105L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	08103F OXYGEN DISSOLVED DO	25105L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26107L IRON DISSOLVED	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	
	SUBM ID	SiO2 MG/L	SI MG/L	O2 MG/L	MN MG/L	MN MG/L	FE MG/L	CO MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0321</b>	<b>8(0)</b>		<b>8(0)</b>		<b>8(7)</b>		<b>1(1)</b>	<b>4(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>2.1</b>		<b>6.0</b>		<b>L.01</b>		<b>L.001</b>	<b>.002</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>3.7</b>		<b>14.0</b>		<b>.01</b>		<b>L.001</b>	<b>.005</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>3.2</b>		<b>10.7</b>		<b>.01*</b>			<b>.004</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.5</b>		<b>2.7</b>		<b>.00*</b>			<b>.001</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>3.2</b>		<b>9.3</b>		<b>L.01</b>			<b>.003</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>3.2</b>		<b>11.0</b>		<b>L.01</b>			<b>.005</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>3.5</b>		<b>12.5</b>		<b>L.01</b>			<b>.005</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		29107L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30107L ZINC DISSOLVED	30305P ZINC EXTRBLE.	33304L ARSENIC EXTRBLE.	34302L SELENIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	48302P CADMIUM EXTRBLE.	
	SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	SE MG/L	MO MG/L	CD MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0321</b>		<b>6(0)</b>		<b>8(0)</b>	<b>8(3)</b>	<b>3(0)</b>	<b>2(0)</b>	<b>1(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>.001</b>		<b>.004</b>	<b>L.0001</b>	<b>.0009</b>	<b>.001</b>	<b>L.000</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>.009</b>		<b>.009</b>	<b>.0011</b>	<b>.0011</b>	<b>.006</b>	<b>L.000</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.004</b>		<b>.006</b>	<b>.0004*</b>	<b>.0010</b>	<b>.0035</b>		<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.003</b>		<b>.002</b>	<b>.0004*</b>	<b>.0001</b>	<b>.0035</b>		<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>.002</b>		<b>.005</b>	<b>L.0001</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>.003</b>		<b>.006</b>	<b>.0001</b>	<b>.0010</b>	<b>.0035</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>.004</b>		<b>.008</b>	<b>.0008</b>				<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		56301P BARIUM EXTRBLE.	82104L LEAD DISSOLVED	82302P LEAD EXTRBLE.	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
	SUBM ID	BA MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0321</b>	<b>6(3)</b>		<b>8(4)</b>	<b>6(1)</b>	<b>8(1)</b>	<b>8(0)</b>	<b>8(5)</b>	<b>8(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.1</b>		<b>L.001</b>	<b>L.0</b>	<b>L.1</b>	<b>116.</b>	<b>L.1</b>	<b>54.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>.1</b>		<b>.002</b>	<b>.1</b>	<b>105.</b>	<b>357.</b>	<b>90.</b>	<b>265.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>.10*</b>		<b>.001*</b>	<b>.1*</b>	<b>32.*</b>	<b>228.</b>	<b>26.*</b>	<b>175.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.00*</b>		<b>.000*</b>	<b>.0*</b>	<b>42.*</b>	<b>85.</b>	<b>36.*</b>	<b>84.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.1</b>		<b>L.001</b>	<b>.1</b>	<b>1.</b>	<b>142.</b>	<b>L.1</b>	<b>87.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>.10*</b>		<b>.001*</b>	<b>.1</b>	<b>4.</b>	<b>260.</b>	<b>L.1</b>	<b>214.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>.1</b>		<b>.001</b>	<b>.1</b>	<b>69.</b>	<b>275.</b>	<b>57.</b>	<b>238.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB BASIN

STATION 00YT10MA0012 LAT. 65 D 9M 35 S LONG. 138 D 22M 10 S

UTM 07 623200E 7228600 N  
OCT 06 1977 TO/A AUG 02 1978ENGINEER CREEK 22.8 KM SOUTH OF  
CONFLUENCE WITH OGILVIE RIVER.

	02041L SPECIFIC CONDUCT.	02023L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	10603L HARDNESS TOTAL CACO3 MG/L	02011L COLOUR APPARENT REL UNITS	02073L TURBIDITY JTU	10301L PH PH UNITS	10101L ALKALINITY TOTAL CACO3 MG/L	00210L SATURATION INDEX (CALCD.) PH UNITS	
SAMPLES(FLAGS)	0321	5(0)	5(0)	5(4)	5(0)	5(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	1700.	1045.	608.	L5.	.3	7.6	265.	.7	MINIMUM
HIGH	1800.	1127.	740.	5.	25.	7.7	461.	.9	MAXIMUM
AVERAGE	1774.	1097.	706.8	5.*	6.4		384.4		MOYENNE
STD.DEV.	42.	34.	55.5	0.*	10.5		77.4		ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	1780.	1080.	725.	L5.	1.2	7.6	356.	.8	25 <sup>e</sup>
MEDIAN 50TH	1792.	1112.	728.	L5.	1.4	7.7	404.	.8	50 <sup>e</sup> MEDIANE
75TH	1800.	1120.	733.	L5.	4.3	7.7	436.	.9	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	19103L POTASSIUM DISSOLVED K MG/L	11103L SODIUM DISSOLVED NA MG/L	20101L CALCIUM DISSOLVED CA MG/L	12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	17206L CHLORIDE DISSOLVED CL MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	
SAMPLES(FLAGS)	0321	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	5(0)	ECHANTILLONS(IND.)
LOW	4.4	121.	152.	51.2	0.	323.	148.	320.	MINIMUM
HIGH	4.5	125.	159.	87.6	0.	562.	155.	400.	MAXIMUM
AVERAGE	4.4	123.2	154.80	77.8	0.	469.	150.0	356.0	MOYENNE
STD.DEV.	.0	1.6	2.95	15.0	0.	94.	2.9	35.6	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	4.4	122.	152.	81.5	0.	434.	148.	325.	25 <sup>e</sup>
MEDIAN 50TH	4.4	124.	155.	84.0	0.	492.	149.	350.	50 <sup>e</sup> MEDIANE
75TH	4.4	124.	156.	84.6	0.	531.	150.	385.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07557L NITROGEN DISSOLVED AMMONIA N MG/L	15102L PHOSPHORUS TOTAL DISSOLVED P MG/L	15255L PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	15313L PHOSPHORUS TOTAL INORG. PO4 P MG/L	15356L PHOSPHORUS DISSOLVED INORG. PO4 P MG/L	15406L PHOSPHORUS TOTAL P MG/L	06001L CARBON TOTAL ORGANIC C MG/L	
SAMPLES(FLAGS)	0321	5(1)	5(0)				3(0)	5(3)	ECHANTILLONS(IND.)
LOW	L.002	3.6					.005	L1.0	MINIMUM
HIGH	.021	3.8					.108	51.	MAXIMUM
AVERAGE	.009*	3.680					.040	18.6*	MOYENNE
STD.DEV.	.008*	.084					.059	19.2*	ECART-TYPE
PERCNT:10TH									10 <sup>e</sup> PERCNT
25TH	.003	3.6						L8.9	25 <sup>e</sup>
MEDIAN 50TH	.004	3.7					.006	14.	50 <sup>e</sup> MEDIANE
75TH	.014	3.7						L18.	75 <sup>e</sup>
90TH									90 <sup>e</sup>
SECONDARY CODE									CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives

## MACKENZIE RIVER BASIN 1960-1979

## MACKENZIE RIVER SUB-BASIN

STATION **00YT10MA0012** LAT. **65 D 9 M 35 S** LONG. **138 D 22 M 10 S**UTM **07 623200E 7228600 N**  
OCT 06, 1977 TO/A AUG 02, 1978ENGINEER CREEK 22.8 KM SOUTH OF  
CONFLUENCE WITH OGILVIE RIVER.

		14105L SILICA REACTIVE	14201L SILICON SOL. ORTHO SILICATE	08103F OXYGEN DISSOLVED DO	25105L MANGANESE DISSOLVED	25304P MANGANESE EXTRBLE.	26107L IRON DISSOLVED	27302P COBALT EXTRBLE.	28302P NICKEL EXTRBLE.	
	SUBM ID	SiO2 MG/L	SI MG/L	O2 MG/L	MN MG/L	MN MG/L	FE MG/L	CO MG/L	NI MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0321</b>	<b>5(0)</b>				<b>5(0)</b>		<b>1(1)</b>	<b>3(3)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>10.0</b>				<b>.02</b>		<b>L.001</b>	<b>L.001</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>11.</b>				<b>.04</b>		<b>L.001</b>	<b>L.001</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>		<b>10.7</b>				<b>.03</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>		<b>.4</b>				<b>.01</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>10.8</b>				<b>.03</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>10.8</b>				<b>.04</b>			<b>L.001</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>11.0</b>				<b>.04</b>				<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		29107L COPPER DISSOLVED	29305P COPPER EXTRBLE.	30107L ZINC DISSOLVED	30305P ZINC EXTRBLE.	33304L ARSENIC EXTRBLE.	34302L SELENIUM EXTRBLE.	42302P MOLYBDENUM EXTRBLE.	48302P CADMIUM EXTRBLE.	
	SUBM ID	CU MG/L	CU MG/L	ZN MG/L	ZN MG/L	AS MG/L	SE MG/L	MO MG/L	CD MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0321</b>		<b>5(4)</b>		<b>5(4)</b>	<b>5(4)</b>	<b>2(2)</b>	<b>2(2)</b>	<b>1(1)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>			<b>L.001</b>		<b>L.001</b>	<b>L.0001</b>	<b>L.0001</b>	<b>L.001</b>	<b>L.000</b>	<b>MINIMUM</b>
<b>HIGH</b>			<b>.002</b>		<b>.001</b>	<b>.0001</b>	<b>L.0001</b>	<b>L.001</b>	<b>L.000</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>			<b>.001*</b>		<b>.001*</b>	<b>.0001*</b>				<b>MOYENNE</b>
<b>STD.DEV.</b>			<b>.000*</b>		<b>.000*</b>	<b>.0000*</b>				<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>			<b>L.001</b>		<b>L.001</b>	<b>L.0001</b>				<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>			<b>L.001</b>		<b>L.001</b>	<b>L.0001</b>	<b>L.0001</b>	<b>L.0010</b>		<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>			<b>L.001</b>		<b>L.001</b>	<b>L.0001</b>				<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

		56301P BARIUM EXTRBLE.	82104L LEAD DISSOLVED	82302P LEAD EXTRBLE.	09106L FLUORIDE DISSOLVED	10401L RESIDUE NONFILTR.	10451L RESIDUE FILTERABLE	10501L RESIDUE FIXED NONFILTR.	10551L RESIDUE FIXED FILTERABLE	
	SUBM ID	BA MG/L	PB MG/L	PB MG/L	F MG/L	MG/L	MG/L	MG/L	MG/L	
<b>SAMPLES(FLAGS)</b>	<b>0321</b>	<b>4(4)</b>		<b>5(4)</b>	<b>4(0)</b>	<b>5(0)</b>	<b>5(0)</b>	<b>5(3)</b>	<b>5(0)</b>	<b>ECHANTILLONS(IND.)</b>
<b>LOW</b>		<b>L.1</b>		<b>L.001</b>	<b>1.3</b>	<b>1.</b>	<b>1100.</b>	<b>L.1.</b>	<b>890.</b>	<b>MINIMUM</b>
<b>HIGH</b>		<b>L.1</b>		<b>.001</b>	<b>1.5</b>	<b>5.</b>	<b>1240.</b>	<b>1.</b>	<b>991.</b>	<b>MAXIMUM</b>
<b>AVERAGE</b>				<b>.001*</b>	<b>1.4</b>	<b>3.</b>	<b>1194.</b>	<b>1.*</b>	<b>956.</b>	<b>MOYENNE</b>
<b>STD.DEV.</b>				<b>.000*</b>	<b>.1</b>	<b>2.</b>	<b>55.</b>	<b>0.*</b>	<b>40.</b>	<b>ECART-TYPE</b>
<b>PERCNT:10TH</b>										<b>10<sup>e</sup> PERCNT</b>
<b>25TH</b>		<b>L.10</b>		<b>L.001</b>	<b>1.3</b>	<b>2.</b>	<b>1200.</b>	<b>L.1.</b>	<b>953.</b>	<b>25<sup>e</sup></b>
<b>MEDIAN 50TH</b>		<b>L.10</b>		<b>L.001</b>	<b>1.4</b>	<b>2.</b>	<b>1200.</b>	<b>L.1.</b>	<b>960.</b>	<b>50<sup>e</sup> MEDIANE</b>
<b>75TH</b>		<b>L.10</b>		<b>L.001</b>	<b>1.5</b>	<b>4.</b>	<b>1230.</b>	<b>1.</b>	<b>984.</b>	<b>75<sup>e</sup></b>
<b>90TH</b>										<b>90<sup>e</sup></b>
SECONDARY CODE										CODE DE SECOURS

\* These statistics include flagged values/Ces statistiques comportent des valeurs indicatives





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**Index numérique**



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Station Number Location Description Station Parameters	Latitude	Longitude	Page
<b>00AL07AA0007</b> ATHABASCA RIVER ABOVE JASPER, JASPER NATIONAL PARK, ALBERTA	52D 48M 39S	118D 2M 18S	16
<b>00AL07AA0009</b> SUNWAPTA RIVER AT ATHABASCA GLACIER, ALBERTA 97900S 007	52D 13M 9S	117D 14M 0S	19
<b>00AL07AA0010</b> ATHABASCA RIVER 1.35 MILES ABOVE CONFLUENCE WITH SUNWAPTA RIVER, JASPER NATIONAL PARK, ALBERTA	52D 30M 39S	117D 40M 0S	22
<b>00AL07AA0011</b> SUNWAPTA RIVER APPROX. 6.1 KM BELOW BEAUTY CREEK, JASPER NATIONAL PARK, ALBERTA	52D 22M 24S	117D 21M 54S	25
<b>00AL07AA0012</b> POBOKTAN CREEK AT HWY 93, JASPER NATIONAL PARK, ALBERTA	52D 27M 0S	117D 26M 30S	28
<b>00AL07AA0013</b> SUNWAPTA RIVER ABOVE SUNWAPTA FALLS, JASPER NATIONAL PARK, ALBERTA	52D 31M 57S	117D 38M 33S	31
<b>00AL07AA0014</b> ATHABASCA RIVER ABOUT 4.5 MILES BELOW CONFLUENCE WITH SUNWAPTA RIVER, JASPER NATIONAL PARK, ALBERTA	52D 35M 3S	117D 44M 21S	34
<b>00AL07AA0015</b> ATHABASCA RIVER AT HWY 93A, ATHABASCA FALLS, JASPER NATIONAL PARK, ALBERTA	52D 39M 54S	117D 52M 51S	37
<b>00AL07AA0016</b> WHIRLPOOL RIVER AT HWY 93A, JASPER NATIONAL PARK, ALBERTA 97900S 009	52D 43M 21S	117D 55M 27S	40
<b>00AL07AA0017</b> ATHABASCA RIVER AT HWY 93A ABOUT 3.8 MILES ABOVE MOUTH OF ASTORIA RIVER, JASPER NATIONAL PARK, ALBERTA	52D 45M 27S	117D 58M 30S	43
<b>00AL07AA0018</b> MIETTE RIVER AT THE MOUTH AT HWY 93A, JASPER NATIONAL PARK, ALBERTA 97900S 001	52D 51M 54S	118D 4M 12S	46
<b>00AL07AA0019</b> ATHABASCA RIVER AT HWY BRIDGE ABOUT 2 MILES BELOW JASPER, JASPER NATIONAL PARK, ALBERTA 97900S 002	52D 54M 33S	118D 3M 24S	49

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00AL07AA0020 MALIGNE RIVER APPROX. 0.2 KM ABOVE THE MOUTH (AT SIXTH BRIDGE), JASPER NATIONAL PARK ALBERTA 97900S 004	52D 56M 0S	118D 1M 48S	52
00AL07AA0021 ATHABASCA RIVER ABOUT 0.5 MILE ABOVE HENRY HOUSE, JASPER NATIONAL PARK, ALBERTA	52D 58M 51S	118D 2M 30S	55
00AL07AA0022 SNARING RIVER AT HWY 16 BRIDGE ABOUT 0.58 MILE ABOVE MOUTH, JASPER NATIONAL PARK, ALBERTA	53D 0M 39S	118D 5M 15S	58
00AL07AA0023 ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA	53D 2M 30S	118D 5M 15S	61
00AL07AA0024 ROCKY RIVER AT HWY 16 BRIDGE ABOUT 0.2 MILE ABOVE MOUTH, JASPER NATIONAL PARK, ALBERTA 97900S 003	53D 8M 24S	117D 58M 33S	64
00AL07AA0025 ATHABASCA RIVER ABOUT 2.05 MILES BELOW DEVONA, JASPER NATIONAL PARK, ALBERTA	53D 10M 15S	117D 58M 24S	67
00AL07AA0026 MIETTE RIVER ABOVE GEIKIE, JASPER NATIONAL PARK, ALBERTA	52D 51M 30S	118D 15M 39S	70
00AL07AA0027 MALIGNE RIVER AT OUTLET OF MEDICINE LAKE, JASPER NATIONAL PARK, ALBERTA	52D 52M 12S	117D 48M 45S	73
00AL07AA0028 MIETTE RIVER BELOW DECOIGNE WARDEN STATION JASPER NATIONAL PARK ALBERTA	52D 53M 0S	118D 22M 55S	76
00AL07AA0029 MIETTE RIVER ABOVE DECOIGNE WARDEN STATION JASPER NATIONAL PARK ALBERTA	52D 53M 0S	118D 23M 50S	77
00AL07AA0030 MIETTE RIVER APPROXIMATELY 4KM ABOVE HWY 16 ROAD CROSSING JASPER NATIONAL PARK ALBERTA	52D 51M 30S	118D 8M 40S	78
00AL07AA0031 MALIGNE RIVER AT OUTLET OF MALIGNE LAKE JASPER NATIONAL PARK ALBERTA	52D 43M 45S	117D 38M 45S	79

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<b>00AL07AA0032</b> MALIGNE RIVER 4KM BELOW MALIGNE LAKE (AT SECOND BRIDGE) JASPER NATIONAL PARK ALBERTA	52D 45M 5S	117D 39M 30S	80
<b>00AL07AA0033</b> MALIGNE RIVER ABOVE MEDICINE LAKE JASPER NATIONAL PARK ALBERTA	52D 50M 10S	117D 43M 30S	81
<b>00AL07AA0034</b> BEAVER CREEK ABOVE MALIGNE LAKE ROAD CROSSING JASPER NATIONAL PARK, ALBERTA	52D 51M 0S	117D 43M 10S	82
<b>00AL07AA0035</b> MALIGNE RIVER ABOVE MALIGNE CANYON AT FOURTH BRIDGE CROSSING JASPER NATIONAL PARK ALBERTA	52D 55M 10S	117D 59M 50S	83
<b>00AL07AA0036</b> MALIGNE RIVER BELOW MALIGNE CANYON AT FIFTH BRIDGE JASPER NATIONAL PARK ALBERTA	52D 55M 35S	118D 1M 5S	84
<b>00AL07AA0037</b> SULPHUR CREEK ABOVE MIETTE HOT SPRINGS JASPER NATIONAL PARK ALBERTA	53D 7M 20S	117D 46M 30S	85
<b>00AL07AA0038</b> SULPHUR CREEK ABOVE MIETTE HOT SPRINGS ROAD CROSSING JASPER NATIONAL PARK, ALBERTA	53D 7M 40S	117D 46M 30S	86
<b>00AL07AA0039</b> SULPHUR CREEK BELOW MIETTE HOT SPRINGS ROAD CROSSING JASPER NATIONAL PARK ALBERTA	53D 7M 40S	117D 46M 30S	87
<b>00AL07AA0040</b> SULPHUR CREEK APPROX. 150M BELOW MIETTE HOT SPRINGS ROAD CROSSING JASPER NATIONAL PARK ALBERTA	53D 7M 45S	117D 46M 30S	88
<b>00AL07AA0041</b> SULPHUR CREEK ABOVE CONFLUENCE WITH FIDDLE RIVER JASPER NATIONAL PARK ALBERTA	53D 8M 40S	117D 46M 50S	89
<b>00AL07AA0042</b> FIDDLE RIVER 5KM BELOW SULPHUR CREEK JASPER NATIONAL PARK ALBERTA	53D 10M 5S	117D 49M 0S	90
<b>00AL07AA0043</b> ATHABASCA RIVER AT FORT POINT BRIDGE JASPER NATIONAL PARK ALBERTA	52D 52M 10S	118D 3M 45S	91



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00AL07AA0044 RIPPLE CREEK AT SNOWMOBILE TOURS STAFF RESIDENCE ROAD JASPER NATIONAL PARK ALBERTA	52D 13M 10S	117D 13M 5S	92
00AL07AA0045 RIPPLE CREEK ABOVE RIPPLE LAKE JASPER NATIONAL PARK ALBERTA	52D 13M 10S	117D 13M 10S	93
00AL07AA0046 RIPPLE CREEK BELOW RIPPLE LAKE JASPER NATIONAL PARK ALBERTA	52D 13M 5S	117D 13M 25S	94
00AL07AA0047 RIPPLE CREEK OPPOSITE ICEFIELDS INFORMATION CENTRE JASPER NATIONAL PARK ALBERTA	52D 13M 5S	117D 13M 30S	95
00AL07AA0048 SUNWAPTA RIVER AT SHIVERS AND GOOSEBUMPS BRIDGE JASPER NATIONAL PARK ALBERTA	52D 12M 45S	117D 14M 0S	96
00AL07AA0049 SUNWAPTA RIVER BELOW SUNWAPTA LAKE JASPER NATIONAL PARK ALBERTA	52D 13M 10S	117D 14M 0S	97
00AL07AA0050 TANGLE CREEK ABOVE WORK COMPOUND JASPER NATIONAL PARK ALBERTA	52D 16M 5S	117D 17M 25S	98
00AL07AA0051 TANGLE CREEK BELOW WORK COMPOUND JASPER NATIONAL PARK ALBERTA	51D 16M 5S	117D 17M 30S	99
00AL07AA0052 POBOKTAN CREEK ABOVE WARDEN STATION JASPER NATIONAL PARK ALBERTA	52D 27M 5S	117D 26M 15S	100
00AL07AA0053 BUCK CREEK ABOVE HWY. 93 ROAD CROSSING JASPER NATIONAL PARK ALBERTA	52D 32M 10S	117D 38M 20S	101
00AL07AA0054 BUCK CREEK APPROX. 100M BELOW HWY. 93 JASPER NATIONAL PARK ALBERTA	52D 32M 5S	117D 38M 20S	102
00AL07AA0055 BUCK CREEK AT THE MOUTH JASPER NATIONAL PARK ALBERTA	52D 32M 0S	117D 38M 25S	103
00AL07AA0056 MIETTE RIVER AT HWY 16 WEST OF JASPER JASPER NATIONAL PARK ALBERTA	52D 51M 45S	117D 5M 45S	104
00AL07AB0001 SNAKE INDIAN RIVER ABOUT 1.2 MILES ABOVE DEVONA FLATS, JASPER NATIONAL PARK, ALBERTA	53D 9M 30S	118D 2M 0S	105

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<b>00AL07AD0001</b> ATHABASCA RIVER AT HINTON, ALBERTA 97900S 002	53D 24M 45S	117D 35M 15S	108
<b>00AL07AE0001</b> ATHABASCA RIVER AT WHITECOURT, ALBERTA	54D 9M 9S	115D 43M 15S	111
<b>00AL07AF0001</b> WAMPUS CREEK NEAR HINTON, ALBERTA 97900S 003	53D 9M 21S	117D 15M 9S	114
<b>00AL07AF0002</b> DEERLICK CREEK NEAR HINTON, ALBERTA 97900S 004	53D 9M 21S	117D 14M 36S	116
<b>00AL07AF0003</b> EUNICE CREEK NEAR HINTON, ALBERTA 97900S 005	53D 9M 9S	117D 13M 54S	118
<b>00AL07AG0001</b> MCLEOD RIVER AT WHITECOURT, ALBERTA	54D 8M 20S	115D 41M 50S	120
<b>00AL07AG0004</b> WOLF CREEK AT HWY 16 CROSSING, ALBERTA 97900S 003	53D 35M 54S	116D 16M 9S	123
<b>00AL07AG0007</b> MCLEOD RIVER SOUTH OF EDSON AT HWY 47, ALBERTA	53D 27M 39S	116D 37M 6S	125
<b>00AL07AG0008</b> MCLEOD RIVER AT HWY 16, ALBERTA	53D 35M 42S	116D 19M 0S	127
<b>00AL07BA0001</b> PEMBINA RIVER BELOW PADDY CREEK, ALBERTA 97900S 001	53D 7M 48S	115D 19M 30S	129
<b>00AL07BB0003</b> PEMBINA RIVER AT ENTWISTLE, ALBERTA 97900S 002	53D 36M 18S	115D 0M 15S	131
<b>00AL07BB0007</b> LOBSTICK RIVER AT WILDWOOD, ALBERTA	53D 36M 57S	115D 13M 48S	134
<b>00AL07BB0009</b> PADDLE RIVER NEAR ROCHEFORT BRIDGE, ALBERTA 97900S 004	53D 53M 51S	115D 2M 21S	136
<b>00AL07BC0001</b> PEMBINA RIVER AT JARVIE, ALBERTA 97900S 002	54D 27M 6S	113D 59M 30S	138
<b>00AL07BD0002</b> ATHABASCA RIVER AT HWY 18, NEAR FORT ASSINIBOINE, ALBERTA	54D 19M 12S	114D 47M 0S	141

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00AL07BD0004 ATHABASCA RIVER NEAR HONDO, ALBERTA	55D 5M 33S	114D 5M 6S	144
00AL07BE0001 ATHABASCA RIVER AT ATHABASCA, ALBERTA 97900S 001	54D 43M 21S	113D 17M 9S	147
00AL07BJ0001 SWAN RIVER AT KINUSO, ALBERTA 97900S 001	55D 19M 45S	115D 24M 51S	152
00AL07BK0005 LESSER SLAVE RIVER AT SLAVE LAKE, ALBERTA 97900S 001	55D 18M 21S	114D 45M 30S	155
00AL07CD0001 CLEARWATER RIVER ABOVE FORT MCMURRAY, ALBERTA 97900S 001	56D 40M 51S	111D 15M 0S	158
00AL07DA0001 ATHABASCA RIVER AT FORT MCMURRAY, ALBERTA 97900S 001	56D 46M 54S	111D 24M 9S	161
00AL07DA0003 ATHABASCA RIVER AT FORT MACKAY, ALBERTA 97900S 003	57D 11M 12S	111D 37M 30S	164
00AL07FD0002 PEACE RIVER AT HWY 2, DUNVEGAN, ALBERTA 97900S 003	55D 55M 18S	118D 36M 33S	489
00AL07FD0003 KSITUAN RIVER WEST OF SPIRIT RIVER, ALBERTA	55D 50M 0S	119D 10M 12S	494
00AL07FD0004 CLEAR RIVER NEAR BEAR CANYON, ALBERTA 97900S 009	56D 18M 21S	119D 40M 51S	496
00AL07FD0005 HINES CREEK NEAR FAIRVIEW, ALBERTA 97900S 008	56D 4M 6S	118D 39M 36S	498
00AL07FD0006 MONTAGNEUSE RIVER NEAR HINES CREEK, ALBERTA 97900S 012	56D 23M 54S	118D 42M 45S	500
00AL07GA0001 SMOKY RIVER ABOVE HELLS CREEK, ALBERTA 97900S 001	53D 57M	119D 9M	502
00AL07GA0002 SMOKY RIVER NEAR GRANDE CACHE, ALBERTA	53D 53M 39S	119D 19M 18S	504

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<b>00AL07GE0001</b> WAPITI RIVER AT HWY 40 SOUTH OF GRANDE PRAIRIE, ALBERTA 97900S 001	55D 4M 3S	118D 48M 15S	506
<b>00AL07GF0008</b> SIMONETTE RIVER NEAR GOODWIN, ALBERTA 97900S 001	55D 8M 30S	118D 10M 30S	508
<b>00AL07GG0001</b> LITTLE SMOKY RIVER AT HWY 43, LITTLE SMOKY, ALBERTA 97900S 002	54D 44M 24S	117D 10M 45S	510
<b>00AL07GG0004</b> WASKAHIGAN RIVER AT HWY 43 BRIDGE 0.1 MILE ABOVE LITTLE SMOKY RIVER, ALBERTA	54D 45M 9S	117D 12M 9S	
<b>00AL07GH0003</b> LITTLE SMOKY RIVER SOUTH OF GUY, ALBERTA 97900S 002	55D 22M 42S	116D 55M 36S	514
<b>00AL07GJ0001</b> SMOKY RIVER AT WATINO, ALBERTA 97900S 001	55D 42M 57S	117D 37M 18S	516
<b>00AL07GJ0003</b> SMOKY RIVER EAST OF BEZANSON, ALBERTA 97900S 002	55D 14M 12S	118D 15M 30S	521
<b>00AL07HA0001</b> PEACE RIVER AT PEACE RIVER, ALBERTA 97900S 001	56D 14M 42S	117D 18M 45S	523
<b>00AL07HA0007</b> HEART RIVER NEAR NAMPA, ALBERTA 97900S 003	56D 3M 18S	117D 7M 45S	527
<b>00AL07HA0008</b> WHITEMUD RIVER NEAR DIXONVILLE, ALBERTA 97900S 005	56D 30M 39S	117D 39M 33S	529
<b>00AL07HC0006</b> NOTIKEWIN RIVER AT MANNING, ALBERTA 97900S 001	56D 55M 21S	117D 37M 39S	531
<b>00AL07HC0007</b> HOTCHKISS RIVER AT HOTCHKISS, ALBERTA	59D 3M	116D 34M	533
<b>00AL07HF0001</b> PEACE RIVER AT FORT VERMILION, ALBERTA 97900S 001	58D 23M 15S	116D 2M 6S	535
<b>00AL07HF0002</b> KEG RIVER AT KEG RIVER CABINS, ALBERTA 97900S 002	57D 44M 39S	117D 37M 21S	539

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00AL07JD0001 WABASCA RIVER AT WADLIN LAKE ROAD, ALBERTA 97900S 002	58D 18M	115D 23M	541
00AL07JD0003 BEAR RIVER SOUTH OF FORT VERMILION, ALBERTA	58D 15M	115D 49M	543
00AL07JF0001 PONTON RIVER AT ROCKY LANE, ALBERTA	58D 32M	116D 22M	545
00AL07JF0003 CARIBOU RIVER EAST OF ROCKY LANE, ALBERTA	58D 30M	115D 54M	547
00AL07KC0001 PEACE RIVER AT PEACE POINT, ALBERTA 97900S 001	59D 6M 51S	112D 25M 36S	549
00AL07KE0001 BIRCH RIVER BELOW ALICE CREEK, ALBERTA 97900S 001	58D 18M 30S	113D 4M 0S	551
00AL07NB0001 SLAVE RIVER AT FITZGERALD, ALBERTA 97900S 001	59D 52M 9S	111D 35M 9S	851
00AL07NB0003 BENCH MARK CREEK NEAR FORT SMITH, ALBERTA 97900S 006	59D 48M 50S	111D 57M 45S	853
00AL07OB0001 STEEN RIVER NEAR STEEN RIVER, ALBERTA 97900S 004	59D 34M 33S	117D 11M 30S	838
00AL07OB0002 HAY RIVER NEAR MEANDER RIVER, ALBERTA 97900S 003	59D 8M	117D 38M	840
00AL07OB0003 HAY RIVER AT INDIAN CABINS, ALBERTA	59D 51M 57S	117D 1M 51S	842
00AT07AD0001 ATHABASCA RIVER AT HINTON 97910S 2060	53D 24M 45S	117D 35M 15S	167
00AT07AD0002 ATHABASCA RIVER - BELOW HINTON 97910S 2075	53D 42M 9S	117D 9M 45S	169
00AT07AG0001 ATHABASCA RIVER AT WHITECOURT 97910S 2080	54D 9M 9S	115D 43M 15S	171



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<b>00AT07AG0002</b> MCLEOD RIVER AT WHITECOURT 97910S 2120	54D 8M 18S	115D 41M 51S	173
<b>00AT07BE0001</b> SOUTH BASIN, SOUTH EAST INLET - BAPTISTE LAKE PROJECT 97910S 2000	54D 55M 16S	113D 31M 46S	175
<b>00AT07BE0002</b> CULVERT CREEK TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT 97910S 2200	54D 43M 48S	113D 32M 6S	177
<b>00AT07BE0003</b> OUTHUSE CREEK TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT 97910S 2400	54D 43M 25S	113D 33M 3S	179
<b>00AT07BE0004</b> BAPTISTE LAKE TRIBUTARY 97910S 2600	54D 43M 20S	113D 33M 14S	181
<b>00AT07BE0005</b> TRIBUTARY TO BAPTISTE LAKE INTO SOUTH INLET 2 - BAPTISTE LAKE PROJECT 97910S 2800	54D 43M 23S	113D 34M 3S	183
<b>00AT07BE0006</b> NORTH WEST TRIBUTARY TO SOUTH INLET OF TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT 97910S 2900	54D 43M 31S	113D 35M 42S	185
<b>00AT07BE0007</b> TRIBUTARY TO BAPTISTE LAKE INTO SOUTH INLET 3 - BAPTISTE LAKE PROJECT 97910S 3000	54D 44M 29S	113D 33M 46S	187
<b>00AT07BE0008</b> GORSAK'S SPRING- BAPTISTE LAKE PROJECT 97910S 3200	54D 44M 38S	113D 33M 37S	189
<b>00AT07BE0009</b> CROUCHER CREEK TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT 97910S 3400	54D 45M 2S	113D 33M 49S	191
<b>00AT07BE0010</b> NARROWS SOUTH WEST TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT 97910S 3600	54D 45M 16S	113D 33M 55S	193
<b>00AT07BE0011</b> NARROWS NORTH WEST TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT 97910S 3800	54D 46M 4S	113D 33M 53S	195

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00AT07BE0012 NORTH BASIN BOTTOM WEST SIDE - BAPTISTE LAKE PROJECT 97910S 4000	54D 46M 48S	113D 34M 17S	197
00AT07BE0013 TRIBUTARY TO BOTTOM NORTH BASIN, WEST SIDE OF BAPTISTE LAKE - BAPTISTE LAKE PROJECT 97910S 4200	54D 47M 9S	113D 34M 31S	199
00AT07BE0014 TRIBUTARY TO TOP NORTH BASIN, WEST SIDE OF BAPTISTE LAKE - BAPTISTE LAKE PROJECT 97910S 4400	54D 47M 25S	113D 34M 10S	201
00AT07BE0015 CATTLE CROSSING CREEK TRIBUTARY TO BAPTISTE LAKE - BAPTISTE LAKE PROJECT 97910S 4600	54D 46M 37S	113D 31M 4S	203
00AT07BE0016 OUTLET CREEK FROM BAPTISTE LAKE (SITE S01) - BAPTISTE LAKE PROJECT 97910S 4800	54D 46M 1S	113D 30M 45S	205
00AT07BK0001 ATHABASCA RIVER ABOVE SMITH 97910S 2140	55D 10M 15S	144D 2M 30S	207
00AT07CB0001 ATHABASCA RIVER AT TOWN OF ATHABASCA 97910S 2160	54D 43M 20S	113D 17M 10S	209
00AT07CC0001 ATHABASCA RIVER 100 METERS ABOVE THE CONFLUENCE WITH THE HORSE RIVER AOSERP 97910S 0012	56D 43M 6S	111D 24M 11S	212
00AT07CC0002 HORSE RIVER AT ABASANDS PARK - 2 MILES ABOVE CONFLUENCE WITH ATHABASCA RIVER - AOSERP 97910S 0030	56D 42M 20S	111D 23M 40S	215
00AT07CC0003 HORSE RIVER NEAR FORT MCMURRAY 100 METERS ABOVE CONFLUENCE WITH ATHABASCA RIVER AOSERP 97910S 0300	56D 43M 6S	111D 23M 40S	218
00AT07CD0001 HANGINGSTONE CREEK - AT HWY 63 -AOSERP 97910S 0040	56D 42M 18S	111D 21M 20S	221

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<b>00AT07CD0002</b> SALINE CREEK - AOSERP 97910S 0100	56D 42M 10S	111D 20M 38S	224
<b>00AT07CD0003</b> CLEARWATER RIVER APPROXIMATELY 2000 METERS ABOVE WATERWAYS AOSERP 97910S 2300	56D 41M 53S	111D 19M 2S	227
<b>00AT07CE0001</b> SURMONT CREEK - ABOUT 2 MILES ABOVE GREGOIRE LAKE- AOSERP 97910S 2000	56D 27M 1S	111D 3M 45S	230
<b>00AT07CE0002</b> CHRISTINA RIVER - ABOVE CONFLUENCE WITH CLEARWATER RIVER 97910S 2191	56D 39M 30S	111D 2M 30S	233
<b>00AT07DA0001</b> STEEPBANK RIVER - 4.5 MILES UPSTREAM FROM THE MOUTH - AT WSC GAUGE - AOSERP 97910S 0060	57D 0M 17S	111D 24M 53S	236
<b>00AT07DA0002</b> POPLAR CREEK - 13 MILES NORTH OF FORT MCMURRAY VIA HWY 63 - AOSERP 97910S 0070	56D 54M 50S	111D 27M 16S	239
<b>00AT07DA0003</b> MUSKEG RIVER NEAR THE MOUTH - AOSERP 97910S 0079	57D 8M 5S	111D 36M 8S	242
<b>00AT07DA0004</b> MUSKEG RIVER - SITE IS 2.2 MILES NORTH EAST OF FORT MACKAY - AT WSC GAUGE -AOSERP 97910S 0080	57D 11M 30S	111D 34M 5S	245
<b>00AT07DA0005</b> HARTLEY CREEK - 2 MILES ABOVE CONFLUENCE WITH MUSKEG RIVER -AOSERP 97910S 0082	57D 14M 18S	111D 24M 55S	248
<b>00AT07DA0006</b> STANLEY CREEK - 1.5 MILES ABOVE CONFLUENCE WITH MUSKEG RIVER - AOSERP 97910S 0083	57D 21M 8S	111D 22M 44S	251
<b>00AT07DA0007</b> KEARL LAKE TRIBUTARY TO MUSKEG RIVER 1 MILE ABOVE CONFLUENCE WITH MUSKEG R. - AOSERP 97910S 0084	57D 18M 14S	111D 22M 20S	254
<b>00AT07DA0008</b> MUSKEG RIVER - 7 MILES UPSTREAM FROM STANLEY CREEK - AOSERP 97910S 0085	57D 25M 0S	111D 13M 16S	257

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00AT07DA0009 MUSKEG TRIBUTARY -3.5 MILES UPSTREAM FROM STANLEY CREEK AND .5 MILE UPSTREAM FROM CONFLUENCE WITH MUSKEG RIVER - AOSERP 97910S 0086	57D 22M 48S	111D 16M 44S	260
00AT07DA0010 HARTLEY CREEK - SW FORK - .25 MILES FROM JUNCTION WITH SE FORK - AOSERP 97910S 0087	57D 11M 21S	111D 23M 44S	263
00AT07DA0011 HARTLEY CREEK - SE FORK - .25 MILES FROM JUNCTION WITH SW FORK - AOSERP 97910S 0088	57D 9M 23S	111D 23M 27S	266
00AT07DA0012 TRIBUTARY TO MUSKEG RIVER 3 MILES UPSTREAM FROM HARTLEY CREEK -AOSERP 97910S 0089	57D 15M 8S	111D 21M 54S	269
00AT07DA0013 HARTLEY CREEK - ONE-QUARTER MILE ABOVE CONFLUENCE WITH MUSKEG RIVER GAUGE - AOSERP 97910S 0090	57D 15M 34S	111D 27M 53S	272
00AT07DA0014 TRIBUTARY LEADING TO KEARL LAKE TRIBUTARY FEEDING THE MUSKEG RIVER 4 MILES FROM KEARL LAKE OUTLET -AOSERP 97910S 0091	57D 15M 42S	111D 19M 18S	275
00AT07DA0015 KEARL LAKE OUTLET - AOSERP 97910S 0092	57D 16M 15S	111D 15M 1S	278
00AT07DA0016 KEARL LAKE INLET - AOSERP 97910S 0093	57D 16M 28S	111D 13M 30S	281
00AT07DA0017 MUSKEG RIVER 14 MILES UPSTREAM FROM STANLEY CREEK - AOSERP 97910S 0094	57D 20M 41S	111D 7M 50S	284
00AT07DA0018 HARTLEY CREEK -SW FORK- 10 MILES FROM JUNCTION WITH SE FORK - AOSERP 97910S 0095	57D 6M 6S	111D 23M 7S	287
00AT07DA0019 HARTLEY CREEK - SE FORK - 13 MILES FROM JUNCTION WITH SW FORK - AOSERP 97910S 0096	57D 4M 22S	111D 11M 18S	290

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<b>00AT07DA0020</b> ELLS RIVER NEAR THE MOUTH NO.1 AOSERP 97910S 0098	57D 18M 23S	111D 40M 20S	293
<b>00AT07DA0021</b> UPPER ELLS RIVER - 5 MILES BELOW GARDINER LAKES - AT WSC GAUGE - AOSERP 97910S 0100	57D 22M 30S	112D 33M 40S	296
<b>00AT07DA0022</b> UNNAMED CREEK 34 AIR MILES NORTH OF FORT MACKAY IMMEDIATELY BELOW SMALL UNNAMED TRIBUTARY WSC SITE AOSERP 97910S 0110	57D 39M 31S	111D 31M 11S	299
<b>00AT07DA0023</b> ASPHALT CREEK NEAR FORT MACKAY - ON RIGHT BANK 30 AIR MILES NORTH OF FORT MACKAY - AT WSC GAUGE - AOSERP 97910S 0120	57D 32M 20S	111D 40M 36S	302
<b>00AT07DA0024</b> EYMUNDSON CREEK APPROXIMATELY 4000 METERS UPSTREAM OF CONFLUENCE WITH ASPHALT CREEK AOSERP 97910S 0121	57D 33M 10S	111D 39M 20S	305
<b>00AT07DA0025</b> PIERRE RIVER - 20 MILES NORTH OF FORT MACKAY - AT WSC GAUGE - AOSERP 97910S 0130	57D 27M 55S	111D 39M 14S	308
<b>00AT07DA0026</b> CALUMET RIVER NEAR FORT MACKAY - ON RIGHT BANK 16 AIR MILES NORTH OF FORT MACKAY - AT WSC GAUGE - AOSERP 97910S 0140	57D 24M 12S	111D 40M 57S	311
<b>00AT07DA0027</b> CALUMET RIVER NEAR THE MOUTH - AOSERP 97910S 0141	57D 24M 38S	111D 39M 57S	314
<b>00AT07DA0028</b> LOWER TAR RIVER - 13 AIR MILES NORTH- WEST OF FORT MACKAY GAUGE - AOSERP 97910S 0150	57D 21M 14S	111D 45M 29S	317
<b>00AT07DA0029</b> JOSLYN CREEK - 2 MILES ABOVE CONFLUENCE WITH ELLS RIVER - AT WSC GAUGE - AOSERP 97910S 0160	57D 16M 27S	111D 44M 30S	320
<b>00AT07DA0030</b> LOWER ELLS RIVER - 2 MILES ABOVE CONFLUENCE WITH JOSLYN CREEK - AT WSC GAUGE - AOSERP 97910S 0170	57D 16M 4S	111D 42M 51S	323



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00AT07DA0031 BEAVER RIVER ABOVE SYNCRUDE - .25 MILE BELOW CONFLUENCE WITH CACHE CREEK - AT WSC GAUGE - AOSERP 97910S 0180	56° 56M 29	111° 33M 54S	326
00AT07DA0032 BEAVER RIVER AT HWY 63 - AOSERP 97910S 0181	57° 6M 54S	111° 37M 22S	329
00AT07DA0033 BRIDGE CREEK DIVERSION - AT HWY 63 - AOSERP 97910S 0182	57° 7M 17S	111° 37M 30S	332
00AT07DA0034 UPPER TAR RIVER - 26 AIR MILES NORTH WEST OF FORT MACKAY - AT WSC GAUGE - AOSERP 97910S 0190	57° 29M 5S	112° 1M 10S	335
00AT07DA0035 ATHABASCA RIVER - OFF McDONALD ISLAND - AOSERP 97910S 0200	56° 44M 33S	111° 23M 25S	338
00AT07DA0036 ATHABASCA RIVER - SITE 3 - MILE 6.5 - AOSERP 97910S 0201	56° 46M 48S	111° 24M 18S	341
00AT07DA0037 ATHABASCA RIVER ABOVE G.C.O.S. PLANT - AOSERP 97910S 0202	56° 58M 1S	111° 27M 14S	344
00AT07DA0038 ATHABASCA RIVER - SITE 4 - MILE 19 - AOSERP 97910S 0203	56° 56M 21S	111° 26M 34S	347
00AT07DA0039 ATHABASCA RIVER AT OLD AOSERP DOCK MILEAGE = 26.3 97910S 0204	57° 1M 15S	111° 29M 49S	350
00AT07DA0040 ATHABASCA RIVER - SITE 6 - MILEAGE 29.8 - AOSERP 97910S 0205	57° 4M 33S	111° 31M 59S	353
00AT07DA0041 ATHABASCA RIVER UPSTREAM FROM THE CONFLUENCE WITH THE MUSKEG RIVER MILE 34.5 - AOSERP 97910S 0206	57° 7M 49S	111° 36M 18S	356

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<b>00AT07DA0042</b> ATHABASCA RIVER AT FORT MACKAY - AOSERP 97910S 0207	57D 11M 16S	111D 37M 26S	359
<b>00AT07DA0043</b> ATHABASCA RIVER BELOW CONFLUENCE WITH THE TAR RIVER - MILE 52.4 - AOSERP 97910S 0208	57D 21M 56S	111D 39M 43S	362
<b>00AT07DA0044</b> ATHABASCA RIVER - ABOVE THE FIREBAG RIVER - MILE 82.4 - AOSERP 97910S 0209	57D 44M 23S	111D 21M 58S	365
<b>00AT07DA0045</b> ATHABASCA RIVER 13 MILES BELOW CONFLUENCE WITH THE FIREBAG RIVER MILE 97-AOSERP 97910S 0210	57D 55M 31S	111D 26M 41S	368
<b>00AT07DA0046</b> ATHABASCA RIVER AT TAR ISLAND 97910S 2170	56D 46M 53S	111D 24M 9S	371
<b>00AT07DA0048</b> STEEP BANK RIVER 97910S 2177	57D 1M 30S	111D 29M 6S	373
<b>00AT07DA0049</b> MUSKEG RIVER 97910S 2178	57D 3M 21S	111D 36M 15S	375
<b>00AT07DA0051</b> ATHABASCA RIVER AT FORT MACKAY 97910S 2180	57D 11M 40S	111D 36M 30S	377
<b>00AT07DA0052</b> ELLS RIVER 97910S 2181	57D 18M 15S	111D 39M 0S	379
<b>00AT07DA0053</b> ATHABASCA RIVER - BITUMOUNT 97910S 2182	57D 23M 30S	111D 39M 0S	381
<b>00AT07DB0001</b> MACKAY RIVER AT HWY. 63 AOSERP 97910S 0011	57D 12M 38S	111D 41M 36S	383
<b>00AT07DB0002</b> DOVER RIVER - 2 MILES ABOVE CONFLUENCE WITH MACKAY RIVER - AT WSC GAUGE - AOSERP 97910S 0020	57D 10M 12S	111D 47M 38S	386
<b>00AT07DB0003</b> DUNKIRK RIVER NEAR FORT MACKAY - ON RIGHT BANK 52 AIR MILES NORTH WEST OF FORT MCMURRAY - AT WSC GAUGE - AOSERP 97910S 0030	56D 51M 20S	112D 42M 40S	389

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00AT07DB0004 THICKWOOD CREEK - 1 MILE ABOVE CONFLUENCE WITH MACKAY RIVER - AT WSC GAUGE - AOSERP 97910S 0040	56D 53M 55S	112D 10M 15S	392
00AT07DB0005 MCKAY RIVER 97910S 2176	57D 10M 0S	111D 45M 21S	395
00AT07DB0006 DOVER RIVER 97910S 2179	57D 10M 0S	111D 45M 21S	397
00AT07DC0001 FIREBAG RIVER WSC SITE AOSERP 97910S 0010	57D 38M 30S	111D 10M 30S	399
00AT07DC0002 LOST CREEK - ONE-HALF MILE ABOVE THE MOUTH - AT WSC GAUGE - AOSERP 97910S 0020	57D 17M 20S	110D 27M 50S	402
00AT07DD0001 ATHABASCA RIVER AT EMBARRAS AIRPORT - AT WSC GAUGE - AOSERP 97910S 0010	58D 12M 18S	111D 23M 24S	405
00AT07DD0002 RICHARDSON RIVER AT WSC GAUGE - AOSERP 97910S 0020	58D 21M 48S	111D 14M 14S	408
00AT07DD0003 JACKFISH CREEK APPROXIMATELY 500 METERS UP FROM CONFLUENCE WITH THE ATHABASCA RIVER SITE 70 AOSERP 97910S 0090	58D 24M 47S	110D 55M 12S	411
00AT07DD0004 ATHABASCA RIVER - BIG POINT CHANNEL OUTLET - DELTA SITE - AOSERP 97910S 0212	58D 38M 25S	110D 46M 26S	414
00AT07FD0001 PEACE RIVER AT DUNVEGAN 97910S 2030	55D 55M 13S	118D 36M 20S	553
00AT07GA0001 SMOKY RIVER - UPSTREAM OF MCINTYRE PORCUPINE MINES 97910S 2010	54D 51M 0S	119D 11M 0S	556
00AT07GA0002 SMOKY RIVER - DOWNSTREAM OF MCINTYRE PORCUPINE MINES 97910S 2020			558

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<b>00AT07GE0001</b> WAPITI RIVER - GROVEDALE 97910S 2010	55D 4M 21S	118D 48M 9S	560
<b>00AT07GJ0001</b> SMOKY RIVER AT GOODWIN 97910S 2020	55D 14M 12S	118D 15M 27S	562
<b>00AT07GJ0002</b> SMOKY RIVER AT WATINO-HWY49 BRIDGE 97910S 2060	55D 42M 57S	117D 37M 21S	564
<b>00AT07HA0001</b> PEACE RIVER ABOVE PEACE RIVER 97910S 2040	56D 13M 27S	117D 18M 0S	567
<b>00AT07HA0002</b> PEACE RIVER - ABOVE PEACE RIVER EAST BANK 97910S 2041	56D 13M 28S	117D 17M 0S	569
<b>00AT07KF0001</b> MAMAWI LAKE CHANNEL - AOSERP 97910S 0100	58D 39M 0S	111D 18M 24S	417
<b>00AT07KF0002</b> CHENAL DES QUATRE FOURCHERS APPROXIMATELY 6500 METERS DOWNSTREAM FROM FOUR FORKS SITE 75 AOSERP 97910S 0101	58D 39M 55S	111D 21M 24S	420
<b>00AT07KF0003</b> PRAIRIE RIVER-WSC. SITE -AOSERP 97910S 0140	58D 37M 25S	111D 40M 50S	423
<b>00AT07NA0001</b> RIVIERE DES ROCHERS 150 METERS UPSTREAM OF REVILLION COUPE 97910S 0030	58D 50M 42S	111D 15M 32S	426
<b>00BC07EE0001</b> PARSNIP RIVER AT HWY 97 BRIDGE, WINDY POINT, BRITISH COLUMBIA	55D 8M 0S	122D 58M 0S	571
<b>00BC07EF0001</b> PEACE RIVER AT HWY 29 BRIDGE, HUDSON HOPE, BRITISH COLUMBIA 97900S 001	56D 1M 39S	121D 53M 57S	573
<b>00BC07FA0003</b> PEACE RIVER NEAR TAYLOR. RAILWAY BRIDGE. BRITISH COLUMBIA.	56D 9M 42S	120D 45M 9S	576
<b>00BC07FB0001</b> PINE RIVER NEAR MOUTH. 3.2 KM. SOUTH OF TAYLOR. BRITISH COLUMBIA.	56D 8M 12S	120D 42M 42S	578

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<b>00BC07FB0004</b> MOBERLY RIVER AT HWY 29 BRIDGE AT OUTLET OF MOBERLY LAKE, BRITISH COLUMBIA	55D 48M 0S	121D 52M 0S	580
<b>00BC07FC0002</b> BEATTON RIVER 9.92 KM. ENE OF FORT ST JOHN. HIGHWAY BRIDGE. BRITISH COLUMBIA.	56D 16M 42S	120D 42M 6S	582
<b>00BC07FD0002</b> PEACE RIVER AT HWY 97 BRIDGE, TAYLOR, BRITISH COLUMBIA	56D 10M 0S	120D 41M 30S	584
<b>00BC07FD0005</b> PEACE RIVER AT CLAYHURST FERRY NEAR B.C.-ALTA. BORDER, BRITISH COLUMBIA	56D 7M 45S	120D 3M 20S	587
<b>00BC07FD0007</b> KISKATINAW RIVER, ALASKA HWY BRIDGE. NEAR FARMINGTON. BRITISH COLUMBIA.	55D 57M 24S	120D 33M 51S	590
<b>00CB07ED0001</b> NATION RIVER AT INLET TO INDATA LAKE, BRITISH COLUMBIA (EQUIS NO. 0400685)	55D 23M 0S	125D 17M 30S	592
<b>00CB07ED0002</b> NATION RIVER AT OUTLET FROM INDATA LAKE, BRITISH COLUMBIA (EQUIS NO. 0400687)	55D 18M 30S	125D 14M 0S	594
<b>00CB07ED0003</b> ROTTACKER CREEK AT CONFLUENCE WITH NATION RIVER NEAR INDATA LAKE OUTLET BRITISH COLUMBIA (EQUIS NO. 0400688)	55D 18M 30S	125D 14M 0S	596
<b>00CB07ED0004</b> ALBERT CREEK DRAINING TO NATION RIVER BETWEEN INDATA AND TCHENTLO LAKES BRITISH COLUMBIA (EQUIS NO. 0400689)	55D 17M 0S	125D 14M 0S	598
<b>00CB07ED0005</b> NATION RIVER AT INLET TO TCHENTLO LAKE, BRITISH COLUMBIA (EQUIS NO. 0400690)	55D 17M 0S	125D 13M 0S	600
<b>00CB07ED0006</b> PURVIS CREEK AT INLET TO PURVIS LAKE, BRITISH COLUMBIA (EQUIS NO. 0400691)	55D 13M 0S	125D 17M 0S	602
<b>00CB07ED0007</b> AIRLINE CREEK AT INLET TO TCHENTLO LAKE, BRITISH COLUMBIA (EQUIS NO. 0400694)	55D 11M 0S	125D 4M 0S	604



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<b>00CB07ED0008</b> AHDATAY CREEK AT INLET TO TCHENTLO LAKE, BRITISH COLUMBIA (EQUIS NO. 0400697)	55D 13M 0S	124D 51M 0S	606
<b>00CB07ED0009</b> NATION RIVER AT TCHENTLO LAKE OUTLET, BRITISH COLUMBIA (EQUIS NO. 0400698)	55D 12M 0S	124D 47M 0S	608
<b>00CB07ED0010</b> NATION RIVER AT INLET TO CHUCHI LAKE, BRITISH COLUMBIA (EQUIS NO. 0400699)	55D 12M 0S	124D 44M 30S	610
<b>00CB07ED0011</b> KLAWLI RIVER AT INLET TO CHUCHI LAKE, BRITISH COLUMBIA (EQUIS NO. 0400700)	55D 12M 30S	124D 45M 0S	612
<b>00CB07ED0012</b> WITCH CREEK AT INLET TO CHUCHI LAKE, BRITISH COLUMBIA (EQUIS NO. 0400704)	55D 9M 0S	124D 23M 30S	614
<b>00CB07ED0013</b> NATION RIVER AT OUTLET FROM CHUCHI LAKE, BRITISH COLUMBIA (EQUIS NO. 0400706)	55D 12M 0S	124D 23M 30S	616
<b>00CB07EE0001</b> SUMMIT LAKE TRIB. D/S FROM SUMMIT LAKE DUMP SITE NEAR HWY 97 NORTH BRITISH COLUMBIA (EQUIS NO. 0400740)	55D 17M 35S	122D 37M 10S	618
<b>00CB07EE0002</b> SUMMIT LAKE TRIBUTARY, UPSTREAM FROM SUMMIT LAKE DUMP SITE AT ROAD CULVERT BRITISH COLUMBIA (EQUIS NO. 0400741)	54D 17M 35S	122D 37M 10S	620
<b>00CB07EF0001</b> PEACE RIVER AT FERRY CROSSING, HUDSON HOPE, BRITISH COLUMBIA (EQUIS NO. 0400169)	56D 1M 10S	121D 53M 55S	622
<b>00CB07FA0001</b> PEACE RIVER TWO MILES UPSTREAM FROM FORT ST. JOHN SANITARY DISCHARGE SITE BRITISH COLUMBIA (EQUIS NO. 0400134)	56D 12M 35S	120D 51M 20S	623
<b>00CB07FA0002</b> PEACE RIVER TWO MILES UPSTREAM FROM FORT ST. JOHN SANITARY DISCHARGE SITE BRITISH COLUMBIA (EQUIS NO. 0400135)	56D 12M 30S	120D 51M 20S	625
<b>00CB07FA0003</b> PEACE RIVER TWO MILES UPSTREAM FROM FORT ST. JOHN SANITARY DISCHARGE SITE BRITISH COLUMBIA (EQUIS NO. 0400136)	56D 12M 35S	120D 51M 20S	627

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00CB07FA0004 PEACE RIVER TWO MILES UPSTREAM FROM FORT ST. JOHN SANITARY DISCHARGE SITE BRITISH COLUMBIA (EQUIS NO. 0400138)	56D 10M 0S	120D 31M 45S	629
00CB07FA0005 PEACE RIVER 100 YDS ABOVE RAILWAY BRIDGE NEAR FORT ST. JOHN BRITISH COLUMBIA (EQUIS NO. 0400139)	56D 10M 0S	120D 45M 40S	631
00CB07FA0006 PEACE RIVER 100 YDS ABOVE RAILWAY BRIDGE NEAR FORT ST. JOHN BRITISH COLUMBIA (EQUIS NO. 0400140)	56D 9M 55S	120D 49M 40S	633
00CB07FB0001 PEACE RIVER BACKWATER ONE HALF MILE ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 0400137)	56D 11M 50S	120D 56M 30S	635
00CB07FB0002 PINE RIVER ONE HALF MILE ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 0400141)	56D 8M 20S	120D 42M 10S	637
00CB07FB0003 MOBERLY RIVER ONE HALF MILE ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 0400302)	56D 11M 10S	120D 57M 5S	639
00CB07FB0004 MURRAY RIVER BELOW COLDSTREAM CREEK AT EAST PINE, BRITISH COLUMBIA (EQUIS NO. 0400552)	55D 42M 20S	121D 6M 40S	641
00CB07FB0005 SUKUNKA RIVER ABOVE CONFLUENCE WITH PINE RIVER NEAR TWIDWELL BEND BRITISH COLUMBIA (EQUIS NO. 0400556)	55D 35M 30S	121D 36M 0S	643
00CB07FB0006 PINE RIVER AT EAST PINE, UPSTREAM OF CONFLUENCE WITH MURRAY RIVER BRITISH COLUMBIA (EQUIS NO. 0400560)	55D 43M 30S	121D 14M 30S	645
00CB07FB0007 PINE RIVER AT TWIDWELL BEND, OPPOSITE CONFLUENCE WITH SUKUNKA RIVER BRITISH COLUMBIA (EQUIS NO. 0400561)	55D 36M 30S	121D 31M 50S	647
00CB07FB0008 PINE RIVER BELOW HART HWY BRIDGE NEAR CONFLUENCE WITH HASLER CREEK BRITISH COLUMBIA (EQUIS NO. 0400562)	55D 36M 30S	121D 59M 0S	649
00CB07FB0009 MOBERLY RIVER ABOVE INLET TO MOBERLY LAKE, BRITISH COLUMBIA (EQUIS NO. 0400567)	55D 48M 0S	121D 54M 0S	651

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<b>00CB07FB0010</b> MURRAY RIVER AT SECOND MAJOR MEANDER APPROX TWO MILES BELOW WOLVERINE RIVER BRITISH COLUMBIA (EQUIS NO. 1177701)	55D 10M 0S	121D 1M 0S	653
<b>00CB07FB0011</b> MURRAY RIVER EAST BANK, 100 METRES ABOVE CONFLUENCE WITH PINE RIVER BRITISH COLUMBIA (EQUIS NO. 1177702)	55D 43M 0S	121D 13M 0S	655
<b>00CB07FB0012</b> PINE RIVER EAST BANK AT PEACE ISLAND PARK ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 1177703)	56D 7M 0S	120D 43M 0S	657
<b>00CB07FB0013</b> PINE RIVER NORTH BANK AT CHETWYND PUMP HOUSE ABOUT 50 M ABOVE CENTURION CREEK BRITISH COLUMBIA (EQUIS NO. 1177704)	55D 41M 0S	121D 39M 0S	659
<b>00CB07FB0014</b> SUKUNKA RIVER EAST BANK APPROX 500 M ABOVE CONFLUENCE WITH PINE RIVER BRITISH COLUMBIA (EQUIS NO. 1177705)	55D 37M 0S	121D 35M 0S	661
<b>00CB07FB0015</b> SUKUNKA RIVER EAST BANK APPROX 10 KM BELOW SKEETER CR, 5 KM ABOVE BURNT R. BRITISH COLUMBIA (EQUIS NO. 1177706)	55D 19M 0S	121D 43M 0S	663
<b>00CB07FB0016</b> BULLMOOSE CREEK IN MAIN CHANNEL AT THE 200 LINE BRIDGE, BRITISH COLUMBIA (EQUIS NO. 1177708)	55D 13M 0S	121D 15M 0S	665
<b>00CB07FB0017</b> WOLVERINE RIVER BELOW BULLMOOSE CREEK, BRITISH COLUMBIA (EQUIS NO. 1177710)	55D 8M 0S	121D 3M 0S	667
<b>00CB07FB0018</b> QUALITY CREEK AT WOOD PRESERVERS CAMP, BRITISH COLUMBIA (EQUIS NO. 1177711)	55D 10M 0S	120D 56M 0S	669
<b>00CB07FB0019</b> FLATBED CREEK APPROX 0.8 KM ABOVE CONFLUENCE WITH MURRAY RIVER BRITISH COLUMBIA (EQUIS NO. 1177712)	55D 7M 0S	121D 1M 0S	671
<b>00CB07FB0020</b> SUKUNKA RIVER ABOVE WINDFALL CREEK AT 100 MILE LINE BRIDGE BRITISH COLUMBIA (EQUIS NO. 1177714)	55D 8M 0S	121D 54M 0S	673
<b>00CB07FB0021</b> WINDFALL CREEK AT 100 LINE ROAD CROSSING, BRITISH COLUMBIA (EQUIS NO. 1177716)	55D 10M 0S	121D 47M 0S	675

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00CB07FB0022 CHAMBERLAIN CREEK AT 100 LINE ROAD CROSSING, BRITISH COLUMBIA (EQUIS NO. 1177717)	55D 14M 0S	121D 39M 0S	677
00CB07FB0023 SKEETER CREEK AT 100 LINE ROAD CROSSING, BRITISH COLUMBIA (EQUIS NO. 1177718)	55D 15M 0S	121D 39M 0S	679
00CB07FB0024 BURNT RIVER NEAR CONFLUENCE WITH SUKUNKA RIVER, BRITISH COLUMBIA (EQUIS NO. 1177720)	55D 20M 0S	121D 44M 0S	681
00CB07FB0025 MEIKLE CREEK AT 200 LINE ROAD CROSSING BRITISH COLUMBIA (EQUIS NO. 1177723)	55D 17M 0S	121D 23M 0S	683
00CB07FB0026 MURRAY RIVER HEADWATERS BELOW IMPERIAL CREEK AT KINUSED FALLS ROAD BRIDGE BRITISH COLUMBIA (EQUIS NO. 1177724)	54D 46M 0S	121D 13M 0S	685
00CB07FB0027 KINUSED CREEK BELOW FIVE CABIN CREEK AT KINUSED FALLS ROAD CROSSING, BRITISH COLUMBIA (EQUIS NO. 1177725)	54D 48M 0S	121D 4M 0S	687
00CB07FB0028 FIVE CABIN CREEK NEAR CONFLUENCE WITH KINUSED CREEK AND FALLS ROAD CROSSING BRITISH COLUMBIA (EQUIS NO. 1177726)	54D 47M 0S	120D 58M 0S	689
00CB07FB0029 KINUSED CREEK UPSTREAM FROM FIVE CABIN CREEK, BRITISH COLUMBIA (EQUIS NO. 1177728)	54D 48M 0S	120D 44M 0S	691
00CB07FB0030 CENTURION CREEK ABOVE CONFLUENCE WITH PINE RIVER, BRITISH COLUMBIA (EQUIS NO 1177745)	55D 40M 0S	121D 38M 0S	693
00CB07FB0031 CENTURION CREEK UPSTREAM FROM CHETWYND VILLAGE, BRITISH COLUMBIA (EQUIS NO. 1177747)	55D 43M 0S	121D 35M 0S	695
00CB07FC0001 BEATTON RIVER ONE HALF MILE ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 0400145)	55D 6M 30S	120D 22M 30S	697
00CB07FC0002 CHARLIE LAKE OUTLET AT SOUTH END OF CHARLIE LAKE NEAR FORT ST. JOHN BRITISH COLUMBIA (EQUIS NO. 0400396)	56D 25M 20S	121D 3M 45S	699

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<b>00CB07FC0003</b> CHARLIE LAKE TRIBUTARY AT SOUTH SIDE OF STODDART CR BRIDGE, MILE 64 ROAD BRITISH COLUMBIA (EQUIS NO. 0400397)	56D 16M 15S	120D 57M 5S	701
<b>00CB07FD0001</b> PEACE RIVER FOUR MILES DOWNSTREAM FROM ALASKA HWY, BRITISH COLUMBIA (EQUIS NO. 0400142)	56D 7M 40S	120D 34M 0S	703
<b>00CB07FD0002</b> PEACE RIVER FOUR MILES DOWNSTREAM FROM ALASKA HWY, BRITISH COLUMBIA (EQUIS NO. 0400143)	56D 7M 35S	120D 34M 0S	705
<b>00CB07FD0003</b> PEACE RIVER FOUR MILES DOWNSTREAM FROM ALASKA HWY, BRITISH COLUMBIA (EQUIS NO. 0400144)	56D 7M 30S	120D 34M 0S	707
<b>00CB07FD0004</b> PEACE RIVER 6 MILES DOWNSTREAM FROM BEATTON RIVER, BRITISH COLUMBIA (EQUIS NO. 0400146)	56D 6M 30S	120D 14M 0S	709
<b>00CB07FD0005</b> PEACE RIVER 6 MILES DOWNSTREAM FROM BEATTON RIVER, BRITISH COLUMBIA (EQUIS NO. 0400147)	56D 6M 25S	120D 14M 0S	711
<b>00CB07FD0006</b> PEACE RIVER 6 MILES DOWNSTREAM FROM BEATTON RIVER, BRITISH COLUMBIA (EQUIS NO. 0400148)	56D 6M 20S	120D 14M 0S	713
<b>00CB07FD0007</b> KISKATINAW RIVER ONE HALF MILE ABOVE CONFLUENCE WITH PEACE RIVER BRITISH COLUMBIA (EQUIS NO. 0400149)	56D 5M 0S	120D 9M 10S	715
<b>00CB07FD0008</b> PACIFIC PETROLEUM, RAW WATER FROM PUMP BEARING COOLING WATER AT TAYLOR, BRITISH COLUMBIA (EQUIS NO. 0400157)	56D 8M 35S	120D 41M 0S	717
<b>00CB07FD0009</b> KISKATINAW RIVER AT ALASKA HWY BRIDGE, BRITISH COLUMBIA (EQUIS NO. 0400544)	55D 57M 40S	120D 33M 25S	718
<b>00CB07FD0010</b> KISKATINAW RIVER NEAR HART HWY BRIDGE AT ARRAS, BRITISH COLUMBIA (EQUIS NO. 0400545)	55D 44M 20S	120D 33M 10S	720
<b>00CB07FD0011</b> DAWSON CREEK AT ALASKA HWY ML 4, 100 FT D/S OF CONFLUENCE WITH UNNAMED CR. BRITISH COLUMBIA (EQUIS NO. 0410031)	55D 47M 10S	120D 19M 15S	722



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<b>00CB07FD0012</b> DAWSON CREEK AT HART HWY, DOWNSTREAM FROM END OF CULVERT, BRITISH COLUMBIA (EQUIS NO. 0410032)	55° 46M 0S	120° 15M 55S	724
<b>00CB07FD0013</b> SOUTH DAWSON CREEK AT 17 AVE, DAWSON CREEK, BRITISH COLUMBIA (EQUIS NO. 0410033)	55° 45M 20S	120° 15M 55S	726
<b>00CB07FD0014</b> DAWSON CREEK AT HWY 2 AT DOWNSTREAM END OF CULVERT, BRITISH COLUMBIA (EQUIS NO. 0410034)	55° 45M 10S	120° 13M 30S	728
<b>00CB07FD0015</b> DAWSON CREEK 150 YDS UPSTREAM OF DISCHARGE AE 4156, LAWRENCE BRITISH COLUMBIA (EQUIS NO. 0410035)	55° 44M 55S	120° 12M 40S	730
<b>00CB07FD0016</b> DAWSON CREEK 20 FT DOWNSTREAM OF DISCHARGE AE 4156, LAWRENCE BRITISH COLUMBIA (EQUIS NO. 0410036)	55° 44M 50S	120° 12M 35S	732
<b>00CB07FD0017</b> DAWSON CREEK 150 FT DOWNSTREAM OF DISCHARGE AE 4156, LAWRENCE BRITISH COLUMBIA (EQUIS NO. 0410037)	55° 44M 45S	120° 12M 25S	734
<b>00CB07FD0018</b> DAWSON CREEK 100 YDS DOWNSTREAM OF DAWSON CREEK REFUSE SITE BRITISH COLUMBIA (EQUIS NO. 0410038)	55° 44M 40S	120° 12M 20S	736
<b>00CB07FD0019</b> POUCE COUPE RIVER ONE HALF MILE UPSTREAM FROM DAWSON CREEK BRITISH COLUMBIA (EQUIS NO. 0410040)	55° 44M 30S	120° 7M 5S	738
<b>00CB07FD0020</b> POUCE COUPE RIVER DOWNSTREAM OF CONFLUENCE WITH DAWSON CREEK BRITISH COLUMBIA (EQUIS NO. 0410041)	55° 45M 10S	120° 6M 20S	740
<b>00CB07FD0021</b> POUCE COUPE RIVER AT SPIRIT RIVER ROAD BRIDGE, BRITISH COLUMBIA (EQUIS NO. 0410042)	55° 42M 50S	120° 6M 45S	742
<b>00CB07FD0022</b> DAWSON CREEK 100 YDS UPSTREAM OF DAWSON CREEK REFUSE SITE BRITISH COLUMBIA (EQUIS NO. 0410050)	55° 45M 0S	120° 15M 0S	744
<b>00CB07FD0023</b> DAWSON CREEK AT DAWSON CREEK REFUSE SITE, BRITISH COLUMBIA (EQUIS NO. 0410051)	55° 45M 0S	120° 15M 0S	746

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<b>00CB07FD0024</b> DAWSON CREEK 25 MILES DOWNSTREAM FROM SEWAGE LAGOON DISCHARGE INTO DAWSON CR BRITISH COLUMBIA (EQUIS NO. 0410052)	55D 45M 0S	120D 10M 0S	748
<b>00CB07GC0001</b> WAPITI RIVER U/S FROM PROPOSED COAL DEVELOPMENT SITE, BRITISH COLUMBIA (EQUIS NO. 1177732)	54D 41M 0S	120D 35M 0S	750
<b>00CB07GC0002</b> WAPITI RIVER NEAR B.C.-ALBERTA BORDER, BRITISH COLUMBIA, (EQUIS NO. 1177733)	54D 44M 0S	120D 0M 0S	752
<b>00CB07GC0003</b> NARRAWAY RIVER U/S FROM PROPOSED COAL DEVELOPMENT SITE, BRITISH COLUMBIA (EQUIS NO. 1177734)	54D 15M 0S	120D 15M 0S	754
<b>00CB07GC0004</b> NARRAWAY RIVER NEAR B.C.-ALBERTA BORDER, BRITISH COLUMBIA (EQUIS NO. 1177735)	54D 21M 0S	120D 0M 0S	756
<b>00CB07GC0005</b> RED DEER CREEK ABOVE WAPITI RIVER, BRITISH COLUMBIA (EQUIS NO. 1177736)	54D 41M 0S	120D 15M 0S	758
<b>00CB07GC0006</b> BELCOURT CREEK ABOVE WAPITI RIVER, BRITISH COLUMBIA (EQUIS NO. 1177737)	54D 41M 0S	120D 5M 0S	760
<b>00CB07GC0007</b> SAXON CREEK NEAR MOUTH, BRITISH COLUMBIA (EQUIS NO. 1177738)	54D 21M 0S	120D 1M 0S	762
<b>00CB07GC0008</b> SAXON CREEK BELOW PROPOSED COAL DEVELOPMENT SITE, BRITISH COLUMBIA (EQUIS NO. 1177739)	54D 16M 0S	120D 2M 0S	764
<b>00NW07NC0002</b> SLAVE RIVER AT WEST CHANNEL ON DIRT ROAD 5 MILES NORTHEAST OF FORT RESOLUTION, NORTHWEST TERRITORIES	61D 15M	113D 40M	855
<b>00NW07OB0001</b> HAY RIVER NEAR HAY RIVER NORTHWEST TERRITORIES 97900S 001	60D 44M 45S	115D 51M 20S	844
<b>00NW07PA0002</b> BUFFALO RIVER AT HWY 5, NORTHWEST TERRITORIES 97900S 001	60D 42M 45S	114D 55M 0S	857

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<b>00NW07PB0002</b> LITTLE BUFFALO RIVER AT HWY 5 WEST OF FORT SMITH, NORTHWEST TERRITORIES	60D 2M 39S	112D 46M 42S	859
<b>00NW07PB0003</b> LITTLE BUFFALO RIVER AT PINE POINT HWY 6 EAST OF PINE POINT, NORTHWEST TERRITORIES	60D 2M 54S	112D 42M 0S	861
<b>00NW07PB0004</b> PAULETTE CREEK AT HWY 6 CULVERT COMINCO PINE POINT MINES NORTHWEST TERRITORIES	60D 57M 55S	113D 57M 50S	863
<b>00NW07QC0001</b> THOA RIVER ABOVE HILL ISLAND LAKE, NORTHWEST TERRITORIES 97900S 003	60D 30M 0S	109D 39M 0S	865
<b>00NW07RD0001</b> LOCKHART RIVER BELOW ARTILLERY LAKE, NORTHWEST TERRITORIES 97900S 001	62D 53M 30S	108D 28M 30S	867
<b>00NW07SA0001</b> SNARE RIVER AT OUTLET OF BIG SPRUCE LAKE, NORTHWEST TERRITORIES 97900S 001	63D 30M 42S	116D 0M 21S	869
<b>00NW07SB0003</b> BAKER CREEK NEAR DISCHARGE INTO YELLOWKNIFE BAY AT CULVERT NEAR GIANT REC HALL, GIANT YELLOWKNIFE MINES STATION 4, NORTHWEST TERRITORIES	62D 29M 11S	114D 21M 40S	871
<b>00NW07SB0004</b> BAKER CREEK AT BRIDGE AT GIANT YELLOWKNIFE MINES STATION 8, NORTHWEST TERRITORIES	62D 27M 0S	114D 28M 30S	873
<b>00NW07SB0005</b> GRACE LAKE, INFLOW STREAM FLOWING INTO WEST END OF LAKE 15 METRES FROM MOUTH NORTHWEST TERRITORIES	62D 25M 0S	114D 28M 30S	876
<b>00NW07SB0006</b> KAM LAKE INFLOW STREAM FROM GRACE LAKE ABOUT 5 METRES EAST OF THE ROAD BETWEEN KAM AND GRACE LAKES NORTH WEST TERRITORIES	62D 25M 30S	114D 25M 0S	877
<b>00NW07SB0007</b> KAM LAKE OUTFLOW STREAM ABOUT 20 YARDS DOWNSREAM FROM KAM LAKE NORTH WEST TERRITORIES	62D 24M 0S	114D 25M 30S	879
<b>00NW07SB0008</b> BAKER CREEK, APPROX. 4000 FT. ABOVE MILL, AT WATER SURVEY STATION, GIANT YELLOWKNIFE MINE NORTHWEST TERRITORIES	62D 30M 36S	114D 21M 48S	880

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<b>00NW07UC0001</b> KAKISA RIVER AT OUTLET OF KAKISA LAKE, NORTHWEST TERRITORIES 97900S 001	60D 56M 30S	117D 25M 0S	882
<b>00NW10EA0001</b> FLAT RIVER ABOVE MINE RAW WATER INTAKE, CANADA TUNGSTEN MINE, NORTHWEST TERRITORIES 97900S 002	61D 57M 30S	128D 13M 0S	805
<b>00NW10EA0002</b> FLAT RIVER AT CAUSEWAY CULVERT BELOW MILL DECANT DISCHARGE, SAMPLED AT THE SMALLER CULVERT TO THE WEST OF THE LARGE CULVERT, CANADA TUNGSTEN MINE, NORTHWEST TERRITORIES	61D 57M 0S	128D 13M 0S	807
<b>00NW10EA0003</b> SARDINE CREEK AT CULVERT AT ROAD TO WATSON LAKE, CANADA TUNGSTEN MINE SITE 3, NORTHWEST TERRITORIES	61D 57M 0S	128D 13M 0S	809
<b>00NW10EA0004</b> FLAT RIVER NEAR MOUTH, NORTHWEST TERRITORIES 97900S 003	61D 32M 0S	125D 24M 21S	811
<b>00NW10EA0005</b> FLAT RIVER APPROX. 1 MILE DOWNSTREAM OF TAILINGS DECANT DISCHARGE, CANADA TUNGSTEN MINES, NORTHWEST TERRITORIES	61D 56M 51S	128D 11M 45S	813
<b>00NW10EB0001</b> SOUTH NAHANNI RIVER ABOVE VIRGINIA FALLS, NORTHWEST TERRITORIES 97900S 001	61D 38M 0S	125D 48M 0S	815
<b>00NW10EC0001</b> SOUTH NAHANNI RIVER ABOVE CLAUSEN CREEK, NORTHWEST TERRITORIES 97900S 001	61D 15M 0S	124D 2M 0S	817
<b>00NW10ED0001</b> LIARD RIVER AT FORT LIARD, NORTHWEST TERRITORIES 97900S 001	60D 14M 35S	123D 28M 45S	819
<b>00NW10ED0002</b> LIARD RIVER ABOVE FORT SIMPSON, NORTHWEST TERRITORIES 97900S 002	61D 44M 24S	121D 13M 11S	821
<b>00NW10ED0003</b> LIARD RIVER AT NAHANNI BUTTE 1.5 MILES FROM JUNCTION WITH SOUTH NAHANNI RIVER, NORTHWEST TERRITORIES	61D 2M 30S	123D 22M 0S	823

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00NW10ED0004 SOUTH NAHANNI RIVER AT NAHANNI BUTTE, NORTHWEST TERRITORIES	61D 2M 30S	123D 24M 0S	825
00NW10ED0005 LIARD RIVER ABOUT 8.5 MILES BELOW FORT LIARD, NORTHWEST TERRITORIES	60D 19M 0S	123D 20M 0S	827
00NW10ED0007 LIARD RIVER ABOUT 150 METRES UPSTREAM FROM JUNCTION OF LIARD AND MACKENZIE RIVERS, NORTHWEST TERRITORIES	61D 50M 45S	121D 17M 25S	829
00NW10FA0001 TROUT RIVER NEAR OUTLET OF TROUT LAKE, NORTHWEST TERRITORIES 97900S 001	60D 46M 0S	121D 6M 30S	925
00NW10FA0002 TROUT RIVER ABOUT 2 MILES FROM MOUTH, NORTHWEST TERRITORIES	61D 17M 0S	119D 51M 0S	927
00NW10FA0003 TROUT RIVER AT FORT SIMPSON HWY, NORTHWEST TERRITORIES 97900S 002	61D 8M 0S	119D 49M 30S	930
00NW10FB0001 MACKENZIE RIVER NEAR FORT PROVIDENCE, NORTHWEST TERRITORIES	61D 15M 0S	118D 3M 0S	933
00NW10FB0003 RABBITSKIN RIVER AT BOTTOM OF THE FIRST RIFFLE ABOUT 0.75 MILE UPSTREAM FROM MOUTH, NORTHWEST TERRITORIES	61D 47M	120D 39M	936
00NW10FB0005 MACKENZIE RIVER 300 METRES UPSTREAM FROM JUNCTION OF MACKENZIE AND LIARD RIVERS, NORTHWEST TERRITORIES	61D 51M 5S	121D 16M 10S	938
00NW10FC0001 HORN RIVER NEAR MOUTH, NORTHWEST TERRITORIES	61D 32M 0S	117D 57M 30S	939
00NW10GB0002 WILLOW LAKE RIVER NEAR THE MOUTH, NORTHWEST TERRITORIES 97900S 001	62D 38M 51S	122D 54M 15S	942
00NW10GB0003 WILLOW LAKE RIVER AT W.S.C. GAUGE ABOVE MOUTH, NORTHWEST TERRITORIES	62D 39M 10S	122D 54M 50S	945
00NW10GC0001 MACKENZIE RIVER NEAR FORT SIMPSON, NORTHWEST TERRITORIES	61D 52M	121D 20M	946



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<b>00NW10GC0002</b> TRAIL RIVER ABOUT 0.5 MILE UPSTREAM FROM MOUTH, NORTHWEST TERRITORIES	62D 6M 0S	122D 11M 30S	949
<b>00NW10GC0003</b> HARRIS RIVER ABOUT 0.5 MILE FROM MOUTH, NORTHWEST TERRITORIES	61D 52M 30S	121D 18M 0S	951
<b>00NW10GC0004</b> HARRIS RIVER ABOUT 0.25 MILE FROM MOUTH, NORTHWEST TERRITORIES	61D 52M 30S	121D 18M 30S	953
<b>00NW10GC0006</b> MARTIN RIVER ABOUT 1.5 MILES UPSTREAM FROM MOUTH, NORTHWEST TERRITORIES	61D 54M 30S	121D 35M 30S	955
<b>00NW10GC0007</b> MARTIN RIVER ABOUT 0.5 MILE UPSTREAM FROM MOUTH, NORTHWEST TERRITORIES	61D 55M 0S	121D 35M 0S	956
<b>00NW10GC0008</b> MARTIN RIVER AT UPSTREAM EDGE OF POOL ABOUT 400 METRES UPSTREAM FROM BRIDGE CROSSING, NORTHWEST TERRITORIES	61D 52M 55S	121D 36M 50S	957
<b>00NW10GC0009</b> MARTIN RIVER AT DOWNSTREAM EDGE OF POOL ABOUT 400 METRES UPSTREAM FROM BRIDGE CROSSING, NORTHWEST TERRITORIES	61D 52M 55S	121D 36M 50S	958
<b>00NW10GC0010</b> MARTIN RIVER AT DOWNSTREAM EDGE OF POOL BETWEEN BRIDGE CROSSING AND ROAD SLASH, NORTHWEST TERRITORIES	61D 53M 5S	121D 37M 5S	959
<b>00NW10GC0011</b> MARTIN RIVER AT UPSTREAM EDGE OF POOL BETWEEN BRIDGE CROSSING AND ROAD SLASH, NORTHWEST TERRITORIES	61D 53M 0S	121D 37M 5S	960
<b>00NW10GC0013</b> MARTIN RIVER AT UPSTREAM EDGE OF POOL ABOUT 400 METRES DOWNSTREAM FROM BRIDGE CROSSING, NORTHWEST TERRITORIES	61D 53M 30S	121D 36M 45S	961
<b>00NW10GD0001</b> NORTH NAHANNI RIVER ABOUT 5 MILES FROM MOUTH, NORTHWEST TERRITORIES	62D 10M 30S	123D 23M 0S	962
<b>00NW10HA0001</b> KEELE RIVER ABOUT 4 MILES FROM MOUTH, NORTHWEST TERRITORIES	64D 23M 15S	124D 53M 0S	965
<b>00NW10HA0006</b> TSICHU RIVER, AT CIRQUE CREEK AT AMAX MINE, ABOVE CONFLUENCE WITH MACMILLAN PASS, DINA STATION-MACPASS NO.3. NORTHWEST TERRITORIES.	63D 17M	130D 3M	968

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00NW10HA0007 TSICU RIVER AT NORTH CANOL ROAD CROSSING AMAX MINE, MACMILLAN PASS. DINA STATION-MACPASS NO.5. NORTHWEST TERRITORIES.	63D 18M	129D 48M	970
00NW10HA0008 UNNAMED CREEK AT NORTH CANOL ROAD CROSSING AMAX MINE, MACMILLAN PASS. DINA STATION-MACPASS NO.2. NORTHWEST TERRITORIES.	63D 16M	130D 0M	972
00NW10HA0009 DALE CREEK AT ACCESS RD TO AMAX MINE. MACMILLAN PASS. DINA STATION-MACPASS NO.1. NORTHWEST TERRITORIES.	63D 16M	130D 6M	974
00NW10HB0004 REDSTONE RIVER AT MOUTH, NORTHWEST TERRITORIES	64D 16M 0S	124D 34M 30S	976
00NW10HC0001 MACKENZIE RIVER NEAR WRIGLEY, NORTHWEST TERRITORIES 97900S 001	63D 16M 0S	123D 36M 0S	979
00NW10HC0005 BLACKWATER RIVER AT MOUTH, NORTHWEST TERRITORIES	63D 57M 0S	124D 9M 0S	981
00NW10JA0001 CAMSELL RIVER AT OUTLET OF CLUT LAKE, NORTHWEST TERRITORIES 97900S 002	65D 36M 0S	117D 45M 30S	898
00NW10JA0002 CAMSELL RIVER AT MILL FRESHWATER INTAKE, NORTHWEST TERRITORIES	65D 36M 40S	118D 9M 50S	900
00NW10JB0001 JOHNNY HOE RIVER ABOVE LAC STE. THERESE, NORTHWEST TERRITORIES 97900S 001	64D 34M 0S	121D 44M 30S	902
00NW10JC0001 GREAT BEAR RIVER AT OUTLET OF GREAT BEAR LAKE NEAR FORT FRANKLIN, NORTHWEST TERRITORIES 97900S 003	65D 8M 0S	123D 31M 0S	904
00NW10JC0002 GREAT BEAR RIVER AT MOUTH NEAR FORT NORMAN, NORTHWEST TERRITORIES	64D 55M 0S	125D 35M 0S	906

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<b>00NW10JC0003</b> GREAT BEAR RIVER ABOUT 100 METRES ABOVE BRACKETT RIVER NORTHWEST TERRITORIES	64D 58M 5S	125D 27M 5S	908
<b>00NW10KA0001</b> MACKENZIE RIVER AT NORMAN WELLS, NORTHWEST TERRITORIES 97900S 001	65D 16M 54S	126D 50M 57S	983
<b>00NW10KA0002</b> MACKENZIE RIVER, 14.5 MILES ABOVE NORMAN WELLS, NORTHWEST TERRITORIES	65D 10M 0S	126D 25M 0S	985
<b>00NW10KA0003</b> MACKENZIE RIVER 20 MILES UPSTREAM FROM NORMAN WELLS, NORTHWEST TERRITORIES	65D 7M	126D 17M	987
<b>00NW10KC0002</b> MOUNTAIN RIVER ABOUT 3 MILES FROM MOUTH, NORTHWEST TERRITORIES	65D 40M 0S	128D 54M 0S	988
<b>00NW10KD0001</b> RAMPARTS RIVER ABOUT 2.5 MILES FROM MOUTH, NORTHWEST TERRITORIES	66D 10M 0S	129D 6M 30S	990
<b>00NW10LA0003</b> MACKENZIE RIVER ABOVE ARTIC RED RIVER NORTHWEST TERRITORIES	67D 21M 30S	133D 33M 30S	992
<b>00NW10LA0004</b> ARCTIC RED RIVER ABOUT 1.5 MILES FROM MOUTH, NORTHWEST TERRITORIES	67D 26M 0S	133D 46M 0S	995
<b>00NW10LA0006</b> ARCTIC RED RIVER AT W.S.C. GAUGE ABOVE MARTIN HOUSE, NORTHWEST TERRITORIES	66D 47M 10S	133D 6M 0S	998
<b>00NW10LB0002</b> MACKENZIE RIVER ABOUT 2.5 MILES ABOVE FORT GOOD HOPE, NORTHWEST TERRITORIES	66D 14M 30S	128D 43M 0S	999
<b>00NW10LC0001</b> RENGLING RIVER AT UPSTREAM JUNCTION OF DEMSTER HWY RE-CHANNELIZATION, NORTHWEST TERRITORIES	67D 45M 25S	133D 52M 0S	1001
<b>00NW10LC0002</b> RENGLING RIVER AT DOWNSTREAM JUNCTION OF DEMSTER HWY RE-CHANNELIZATION, NORTHWEST TERRITORIES	67D 45M 25S	133D 52M 35S	1002
<b>00NW10LC0005</b> MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	68D 22M 30S	133D 46M 0S	1003

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00NW10LC0008 MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	69D 11M 30S	134D 14M 30S	1005
00NW10LC0009 MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	68D 57M 30S	134D 37M 0S	1006
00NW10LC0010 MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	68D 38M 0S	134D 4M 0S	1007
00NW10LC0011 MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	68D 29M 0S	133D 49M 30S	1008
00NW10LC0012 MACKENZIE RIVER EAST CHANNEL, NORTHWEST TERRITORIES	68D 18M 0S	133D 46M 30S	1009
00NW10LD0001 MACKENZIE RIVER AT FORT GOOD HOPE, NORTHWEST TERRITORIES 97900S 001	66D 15M 30S	128D 38M 0S	1010
00NW10LD0002 HARE INDIAN RIVER NEAR THE MOUTH, NORTHWEST TERRITORIES	66D 18M	128D 34M	1012
00NW10MC0001 PEEL RIVER ABOVE FORT MCPHERSON, NORTHWEST TERRITORIES 97900S 002	67D 13M 15S	134D 56M 45S	1014
00NW10MC0002 PEEL RIVER AT FORT MCPHERSON, NORTHWEST TERRITORIES	67D 26M 0S	134D 53M 30S	1017
00NW10MC0003 MACKENZIE RIVER WEST CHANNEL, NORTHWEST TERRITORIES	68D 37M 30S	135D 43M 30S	1020
00NW10MC0004 MACKENZIE RIVER WEST CHANNEL, NORTHWEST TERRITORIES	68D 25M 0S	135D 25M 30S	1021
00NW10MC0005 MACKENZIE RIVER MAIN CHANNEL, NORTHWEST TERRITORIES	68D 38M 0S	134D 11M 0S	1022
00NW10MC0007 NAPOIAK CHANNEL OF MACKENZIE RIVER, NORTHWEST TERRITORIES	68D 36M 30S	134D 56M 30S	1023

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<b>00SA07LA0001</b> GEIKIE RIVER BELOW JUNCTION OF WHEELER RIVER, SASKATCHEWAN 97900S 002	57D 35M 20S	104D 12M 10S	429
<b>00SA07LC0001</b> FOND DU LAC RIVER AT OUTLET OF BLACK LAKE, SASKATCHEWAN 97900S 002	59D 9M 0S	105D 32M 30S	432
<b>00SA07LD0001</b> CREE RIVER AT OUTLET OF WAPATA LAKE, SASKATCHEWAN 97900S 002	59D 46M 0S	105D 47M 30S	435
<b>00SA07MA0001</b> DOUGLAS RIVER APPROX. 16.1KM. BELOW CLUFF CREEK SASKATCHEWAN	58D 19M 21S	109D 47M 9S	438
<b>00SA07MB0001</b> MCFARLANE RIVER AT OUTLET OF DAVY LAKE, SASKATCHEWAN 97900S 001	58D 57M	108D 10M	440
<b>00YT10AA0001</b> LIARD RIVER AT W.S.C. GAUGE AT BRIDGE ON ALASKA HIGHWAY IN UPPER LIARD CROSSING, YUKON TERRITORY 97900S 001	60D 3M 0S	128D 54M 0S	830
<b>00YT10AB0001</b> FRANCES RIVER AT W.S.C. GAUGE AT BRIDGE ON ROBERT CAMPBELL HIGHWAY ABOUT 37 MILES NORTH OF WATSON LAKE, YUKON TERRITORY 97900S 001	60D 27M 15S	129D 8M 9S	832
<b>00YT10MA0001</b> PEEL RIVER AT W.S.C. GAUGE ABOVE CANYON CREEK, YUKON TERRITORY 97900S 001	65D 53M 39S	136D 2M 9S	1024
<b>00YT10MA0002</b> OGILVIE RIVER 31.5 KM NNE FROM CONFLUENCE WITH ENGINEER CREEK. STATION 1. DEMPSTER HIGHWAY. YUKON TERRITORY.	65D 38M 50S	138D 7M 30S	1026
<b>00YT10MA0006</b> OGILVIE RIVER 4.1 KM NNE OF CONFLUENCE WITH ENGINEER CREEK. STATION 6. DEMPSTER HIGHWAY. YUKON TERRITORY.	65D 23M 45S	138D 15M 55S	1028
<b>00YT10MA0008</b> ENGINEER CREEK AT DEMPSTER HWY. BRIDGE 0.5 KM ABOVE CONFLUENCE WITH OGILVIE R STATION 8. DEMPSTER HWY. YUKON TERRITORY.	65D 21M 35S	138D 17M 30S	1030



# WATER QUALITY STATIONS : NUMERICAL INDEX

Station Number Location Description Station Parameters	Latitude	Longitude	Page
00YT10MA0011 OGILVIE RIVER 0.5 KM UPSTREAM OF CONFLUENCE WITH ENGINEER CREEK. STATION 11-12. DEMPSTER HIGHWAY. YUKON TERRITORY.	65D 21M 30S	138D 18M 20S	1032
00YT10MA0012 ENGINEER CREEK 22.8 KM SOUTH OF CONFLUENCE WITH OGILVIE RIVER. STATION 13. DEMPSTER HIGHWAY. YUKON TERRITORY.	65D 9M 35S	138D 22M 10S	1034
01AT07CE0001 GREGOIRE LAKE AT WIER - AOSERP 97910S 0011	56D 26M 32S	111D 5M 6S	443
01AT07DA0001 UPPER GARDNER LAKE IN BIRCH MOUNTAINS - WSC GAUGE ON WEST SHORE - AOSERP 97910S 0200	57D 30M 33S	112D 31M 0S	446
01AT07DA0002 NAMUR LAKE AT BIRCH MOUNTAIN LODGE IN BIRCH MOUNTAINS AOSERP 97910S 0210	57D 22M 10S	112D 45M 30S	449
01AT07DA0003 EAGLENEST LAKE IN BIRCH MOUNTAINS NEAR OUTLET AOSERP 97910S 0220	57D 45M 20S	112D 10M 0S	452
01AT07DA0004 GARDINER LAKE LOWER SITE - AOSERP 97910S 2000	57D 32M 0S	112D 28M 40S	455
01AT07DD0001 RICHARDSON LAKE CENTER - AOSERP 97910S 0080	58D 24M 0S	111D 4M 0S	458
01AT07KF0001 LAKE CLAIRE 10.5 KILOMETERS DUE EAST OF THE NORTH END OF BIRCH RIVER-AOSERP SITE 78 AOSERP 97910S 0200	58D 34M 33S	112D 4M 31S	461
01AT07KF0002 LAKE CLAIRE AT 28TH BASELINE DUE WEST OF WILLOW POINT 2.75 MILES SITE 79 - AOSERP 97910S 0201	58D 26M 0S	112D 4M 12S	464
01AT07MD0001 LAKE ATHABASKA AT SANDY POINT - DUE WEST OF TIP OF SANDY POINT - AOSERP 97910S 2000	58D 56M 11S	110D 42M 44S	467

# WATER QUALITY STATIONS : NUMERICAL INDEX

Station Number Location Description Station Parameters	Latitude	Longitude	Page
<b>01CB07ED0001</b> INDATA LAKE AT CENTRE OF LAKE, BRITISH COLUMBIA (EQUIS NO. 0400686)	55D 21M 30S	125D 16M 0S	766
<b>01CB07ED0002</b> TCHENTLO LAKE AT WESTERN BEND NEAR MIDDLE OF LAKE, BRITISH COLUMBIA (EQUIS NO. 0400693)	55D 12M 0S	125D 10M 0S	768
<b>01CB07ED0003</b> TCHENTLO LAKE AT MIDDLE NEAR ISLAND, BRITISH COLUMBIA (EQUIS NO. 0400695)	55D 12M 0S	125D 1M 0S	770
<b>01CB07ED0004</b> TCHENTLO LAKE EASTERN BEND AT MIDDLE OF LAKE, BRITISH COLUMBIA (EQUIS NO. 0400696)	55D 13M 0S	124D 52M 30S	772
<b>01CB07ED0005</b> CHUCHI LAKE AT MIDDLE NEAR SMALL ISLAND AT WESTERN END BRITISH COLUMBIA (EQUIS NO. 0400701)	55D 10M 0S	124D 39M 0S	774
<b>01CB07ED0006</b> CHUCHI LAKE AT MIDDLE OF MAIN REACH, BRITISH COLUMBIA (EQUIS NO. 0400702)	55D 10M 0S	124D 33M 0S	776
<b>01CB07ED0007</b> CHUCHI LAKE AT EASTERN END OF MAIN REACH, BRITISH COLUMBIA (EQUIS NO. 0400703)	55D 12M 0S	124D 28M 0S	778
<b>01CB07ED0008</b> CHUCHI LAKE EASTERN BAY NEAR ISLAND, BRITISH COLUMBIA (EQUIS NO. 0400705)	55D 9M 0S	124D 22M 0S	780
<b>01CB07EE0001</b> WILLISTON LAKE AT MACKENZIE EFFLUENT DISCHARGE, BRITISH COLUMBIA (EQUIS NO. 0400651)	55D 19M 0S	124D 9M 0S	782
<b>01CB07FC0002</b> CHARLIE LAKE NEAR OUTLET, NEAR FORT ST JOHN, BRITISH COLUMBIA (EQUIS NO. 0400388)	56D 17M 30S	120D 57M 30S	784
<b>01CB07FC0003</b> CHARLIE LAKE AT SOUTH END OF LAKE 150 FT FROM WEST SHORE NEAR FORT ST JOHN BRITISH COLUMBIA (EQUIS NO. 0400389)	56D 18M 35S	120D 58M 40S	786
<b>01CB07FC0004</b> CHARLIE LAKE AT SOUTH END OF LAKE 150 FT FROM EAST SHORE NEAR FORT ST JOHN BRITISH COLUMBIA (EQUIS NO. 0400390)	56D 18M 50S	120D 57M 50S	788

# WATER QUALITY STATIONS : NUMERICAL INDEX

Station Number Location Description Station Parameters	Latitude	Longitude	Page
<b>01CB07FC0005</b> CHARLIE LAKE NEAR MIDDLE OF LAKE, FORT ST JOHN, BRITISH COLUMBIA (EQUIS NO. 0400391)	56D 20M 0S	120D 59M 15S	790
<b>01CB07FC0006</b> CHARLIE LAKE 150 FT FROM EAST SHORE, FORT ST JOHN, BRITISH COLUMBIA (EQUIS NO. 0400392)	56D 19M 55S	120D 57M 35S	792
<b>01CB07FC0007</b> CHARLIE LAKE 150 FT FROM WEST SHORE, FORT ST JOHN, BRITISH COLUMBIA (EQUIS NO. 0400393)	56D 20M 10S	121D 0M 10S	794
<b>01CB07FC0008</b> CHARLIE LAKE AT MIDDLE OF LAKE NEAR NORTH END, NEAR FORT ST JOHN BRITISH COLUMBIA (EQUIS NO. 0400394)	56D 20M 40S	121D 0M 30S	796
<b>01CB07FC0009</b> CHARLIE LAKE AT NORTH END OF LAKE, ONE HALF MILE FROM INLET, FORT ST JOHN, BRITISH COLUMBIA (EQUIS NO. 0400395)	56D 21M 50S	121D 2M 15S	798
<b>01NW07SB0001</b> GREAT SLAVE LAKE AT YELLOWKNIFE, NORTHWEST TERRITORIES 97900S 001	62D 26M 30S	114D 21M 0S	884
<b>01NW07SB0003</b> YELLOWKNIFE BAY, GREAT SLAVE LAKE AT FRESHWATER INTAKE FOR MILL, APPROX. 800 FEET NORTH OF BAKER CREEK DISCHARGE TO YELLOWKNIFE BAY GIANT YELLOWKNIFE MINE, NORTHWEST TERRITORIES	62D 29M 15S	114D 21M 38S	886
<b>01NW07SB0005</b> KAM LAKE ABOUT 1.2 KILOMETRES SOUTH OF SEWER INFLOW AND 0.35 KILOMETRE NORTHWEST OF PUD LAKE INFLOW, NORTHWEST TERRITORIES	62D 25M 30S	114D 24M 0S	888
<b>01NW07SB0006</b> GRACE LAKE ABOUT 1.2 KILOMETRES SOUTHWEST OF OUTLET TO KAM LAKE, NORTHWEST TERRITORIES	62D 25M 0S	114D 26M 30S	890
<b>01NW07SB0007</b> FRAME LAKE ABOUT 0.05 KILOMETRES SOUTH OF THE NORTH SHORE, NORTHWEST TERRITORIES	62D 27M 35S	114D 23M 20S	892
<b>01NW07SB0009</b> YELLOWKNIFE BAY, GREAT SLAVE LAKE (NORTH ARM), AT MILL FRESHWATER INTAKE COMINCO YELLOWKNIFE MINE, NORTHWEST TERRITORIES	62D 26M 39S	114D 21M 54S	893

# WATER QUALITY STATIONS : NUMERICAL INDEX

Station Number Location Description Station Parameters	Latitude	Longitude	Page
<b>01NW10JA0002</b> LABINE BAY RAW WATER AT MAIN PUMPHOUSE, ECHO BAY MINE STATION 3, NORTHWEST TERRITORIES	66D 5M	118D 3M	910
<b>01NW10JA0004</b> LABINE BAY RAW WATER AT DREDGE PUMPHOUSE, ECHO BAY MINE STATION 2, NORTHWEST TERRITORIES	66D 5M	118D 3M	912
<b>01NW10JA0005</b> HOHUM LAKE 40 FEET FROM TERRA MINE TAILINGS EFFLUENT, NORTHWEST TERRITORIES	65D 37M	118D 8M	914
<b>01NW10JA0009</b> LABINE BAY, GREAT BEAR LAKE, MAIN PUMP HOUSE FRESHWATER INTAKE (FOR MILL), NORTH SHORE OF BAY, OPPOSITE MILL POWERHOUSE, ECHO BAY MINES, NORTH WEST TERRITORIES	66D 5M	118D 2M	916
<b>01SA07LB0001</b> WATERBURY LAKE AT CREW CABIN, SASKATCHEWAN	58D 13M	104D 13M	470
<b>01SA07LD0001</b> CREE LAKE AT CABLE BAY, SASKATCHEWAN 97900S 001	57D 20M 0S	107D 8M 0S	472
<b>01SA07MC0001</b> LAKE ATHABASCA NEAR CRACKINGSTONE POINT, SASKATCHEWAN	59D 22M 54S	108D 52M 51S	474





**Map**  
**Carte**



## Station Locations

The accompanying map identifies water quality sampling locations. Only the significant digits of the station's sequential number have been reproduced on the map, but the complete NAQUADAT station number can be generated in the following manner:

### NAQUADAT Station Numbers

- A. The station's water-type has been colour coded as follows:

<i>Colour</i>	<i>Water Type</i>	<i>Code *</i>
Green	Streams and rivers	00
Red	Lakes	01

- B. The stations are also separated into federal (○) and provincial (Δ) stations. By determining the location of the station with respect to the political boundaries, the provincial or territorial code (the 3rd and 4th characters of the NAQUADAT station number) can be generated as follows:

#### *Federal (○) Station      Code*

Alberta	AL
British Columbia	BC
Northwest Territories	NW
Saskatchewan	SA
Yukon Territory	YT

#### *Provincial (Δ) Station      Code*

Alberta	AT
British Columbia	CB

- C. The next four alphanumeric characters (5-8) relate to the sub-sub-division (basin/sub-basin) designations of the Water Survey of Canada, which are delineated in **bold** black type on the map. Thus "1FA" on the map becomes "01FA" of the NAQUADAT number.
- D. The last four digits (9-12) are the sequential station number, the significant digits of which appear beside the station location; for instance, "0001" appears as

\* These codes form the first two digits of the NAQUADAT station number.

## Emplacement des stations

La carte ci-joint identifie l'emplacement des stations sélectionnées pour prélever des échantillons de la qualité des eaux. Seuls les caractères importants du numéro de référence de la station sont inscrits sur la carte; on peut se procurer le numéro de station NAQUADAT correspondant de la manière suivante:

### Numéros de station NAQUADAT

- A. Le type d'eau étudié par la station est coloré comme suite:

<i>Couleur</i>	<i>Type d'eau</i>	<i>Code *</i>
Vert	Ruisseaux, rivières, fleuves	00
Rouge	Lacs	01

- B. Les stations sont aussi divisées en stations fédérales (○) et provinciales (Δ). En déterminant l'emplacement de la station d'après les limites politiques, le code provincial ou territorial (3<sup>e</sup> et 4<sup>e</sup> caractères du numéro de station NAQUADAT) peut être déterminé comme suit:

#### *Station fédérale (○)                      Code*

Alberta	AL
Colombie-Britannique	BC
Territoires du Nord-Ouest	NW
Saskatchewan	SA
Territoire du Yukon	YT

#### *Station provinciale (Δ)                      Code*

Alberta	AT
Colombie-Britannique	CB

- C. Les deux chiffres et deux lettre qui suivent (5-8) identifient le bassin et le sous-bassin respectivement, comme établis par la Division des relevés hydrologiques du Canada. Ils sont en caractères **gras** sur la carte. Ainsi "1FA" sur la carte signifie "01FA" du numéro la station NAQUADAT.
- D. Les quatre derniers chiffres (9-12) permettent de déterminer le numéro séquentiel de la station dont les chiffres significatifs apparaissent à côté de

\* Ces codes constituent les deux premiers caractères du numéro de station NAQUADAT.

"1" on the map beside the appropriate station symbol.

### Provincial Station Numbers

For provincial government stations, the original station number can be determined from either the alphabetical or numerical station lists.

- (i) For the Alberta government stations, the original number is identical with the NAQUADAT number except for the sequential numbers (last four digits); the provincial digits are noted opposite the code "97910S" in the index.
- (ii) For British Columbia government stations, the EQUIS (provincial) number appears in brackets at the end of the station description.

### Locating Summary Data

To find the data summary for a given station, refer to the numerical station list where the stations appear in ascending order according to their NAQUADAT number (i.e. beginning with 00AL07AA0007 and proceeding to 01SA07MC0001).

The data summary for each station begins on the page number indicated in the far right-hand column.

l'emplacement de la station; par exemple "0001" devient "1" sur la carte à côté du symbole approprié de la station.

### Numéros des stations provinciales

Pour les stations des gouvernements provinciaux, le numéro de station initial peut être déterminé à partir des listes alphabétiques ou numériques.

- (i) Pour les stations du gouvernement de l'Alberta, le numéro initial est identique au numéro NAQUADAT sauf pour ce qui est des numéros séquentiels (quatre derniers caractères); les caractères provinciaux sont inscrits face au code "97910S" dans l'index.
- (ii) Pour les stations du gouvernement de la Colombie-Britannique, le numéro (provincial) EQUIS est inscrit entre parenthèses à la fin de la description de chaque station.

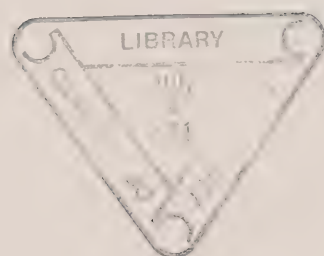
### Recherches de l'extrait des données

Pour trouver l'extrait des données pour une station particulière, voir l'index numérique des stations, où les stations sont indiquées par ordre croissant suivant leur numéro NAQUADAT (c'est-à-dire, commençant par 00AL07AA0007 et jusqu'à 01SA07MC0001).

L'extrait des données pour chaque station commence à la page indiquée dans la colonne de droite.









MACKENZIE RIVER BASIN STUDY  
HYDROLOGIC SYSTEMS

MACKENZIE RIVER BASIN  
WATER QUALITY STATIONS  
1960-1979

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WATER QUALITY STATIONS

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LAKES

FEDERAL STATIONS

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Scale - Echelle  
1:500,000

ETUDE DU BASSIN HYDROGRAPHIQUE MACKENZIE  
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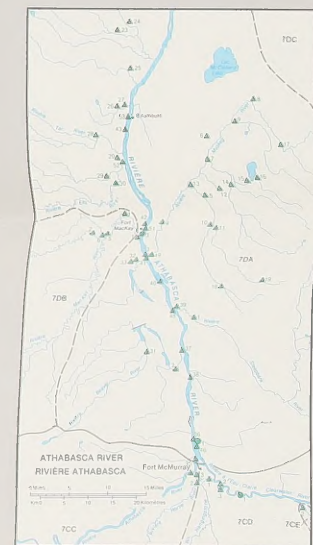
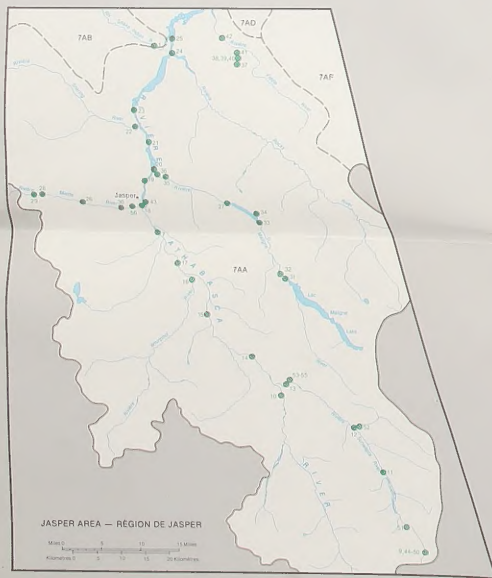
STATIONS PROVINCIALES

LACS

STATIONS FÉDÉRALES

STATIONS PROVINCIALES









INLAND WATERS DIRECTORATE  
WATER QUALITY BRANCH  
OTTAWA, CANADA, 1981

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES  
DIRECTION DE LA QUALITÉ DES EAUX  
OTTAWA, CANADA, 1981

